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GUIDE TO RANGE PLANT COMMUNITY TYPES AND CARRYING CAPACITY FOR THE DRY AND CENTRAL MIXEDWOOD SUBREGIONS IN ALBERTA

Alberta
ENVIRONMENT
Forest Management Division

Alberta
AGRICULTURE,FOOD AND
RURAL DEVELOPMENT
Public Lands Division

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GUIDE TO RANGE PLANT COMMUNITY TYPES AND CARRYING CAPACITY FOR THE DRY AND CENTRAL MIXEDWOOD SUBREGIONS IN ALBERTA

Third approximation

2000

Prepared by

Michael G. Willoughby

and the

Rangeland Health Assessment Project and
Forest Rangeland Action Plan

Edmonton

ALBERTA ENVIRONMENT
Land and Forest Service

ALBERTA AGRICULTURE,
FOOD AND RURAL
DEVELOPMENT
Public Lands Division

FORWARD

In January, 1999 a joint Land and Forest Service (LFS) and Agriculture, Food and Rural Development (AFRD) project, called the Rangeland Health Assessment Project[1] was initiated. Its purpose is to coordinate the development of rangeland health assessment methods and ecological site descriptions for both forested and grassland dominated rangelands in the province and transfer the new technology (awareness, information and tools) to livestock producers, staff and other stakeholders. This project has given rise too two action plans: 1.) Prairie Rangeland Action Plan (PRAP) and 2.) Forested Rangeland Action Plan (FRAP). This document "Range plant communities and carrying capacity for the Dry and Central Mixedwood subregions of Alberta, Third Approximation" is a beginning effort of the (FRAP)[2] plan to organize existing range plant community information for the Boreal Mixedwood subregions into an ecological framework in order to develop ecological site descriptions as outlined in the Alberta Rangeland Health Task Group, Terms of Reference (1999). This guide encompasses the work of Karen Sundquist (who worked on previous approximations) and Dave Downing who developed the classification for the deciduous communities in the Eastern ecodistricts of the Dry Mixedwood (Downing and Karpuk 1992) and developed a forage gap analysis for the Mixedwood subregions (Downing 2000). It also tries to incorporate the work done by Beckingham and Archibald (1996) on the forested ecosites of the Boreal Mixedwood subregions. As we collect new research information, the third approximation will evolve into a range ecosite field guide. One major outcome of the project will be to produce ecological base information which will be used to develop management tools for northern livestock producers, resource managers and other stakeholders of Alberta's Boreal forest. This new knowledge will aide in the sustainable grazing of forested plant communities, and maintain the good health and proper functioning of these ecosystems.

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Abstract

The Dry and Central Mixedwood subregions cover nearly 40% of the province and are dominated by aspen, jack pine on coarse textured soils and black spruce, willows and sedges in the poorly drained areas. The vegetative communities in these subregions are important because they provide summer range for livestock, prime habitat for many species of wildlife, productive watersheds, recreational areas and timber harvesting. Despite the importance of these vegetation types there is little information on their ecology. The lack of information makes it very difficult to develop management prescriptions for multiple use. As a result guides like this and "Ecosites of Northern Alberta" (Beckingham and Archibald 1996) are being developed to provide a framework that will easily group the vegetative community types. It is hoped these classification systems can be used by field staff to assess the ecology of the sites and develop management prescriptions on lands within each region.

This guide represents the analysis of 539 grass, shrubland, conifer and deciduous plots described in the Dry and Central Mixedwood subregions. These types are split into:

Dry Mixedwood subregion

A. Native grass and shrubland	17 types
B. Tame grasslands	9 types
C. Deciduous community types	17 types
D. Mixedwood and Conifer community types	10 types

Central Mixedwood subregion

A. Native grass and shrubland	12 types
B. Tame grasslands	7 types
C. Deciduous community types	17 types
D. Mixedwood and Conifer community types	10 types

Introduction

The province of Alberta is covered by a broad spectrum of vegetation regions from prairie in the South, to alpine vegetation in the mountains and dense forests in the Central and Northern parts of the province. These broad vegetation regions have been classified into 6 regions and 20 subregions (Dept. of Environmental Protection 1994). Each of the 20 subregions consists of groups of plant communities which are influenced by environmental conditions and human impacts. Intensive management of these regions requires the ability to recoqnize the vegetative communities that have similar productivities and respond to disturbance in the same way.

The vegetative communities in the province of Alberta are highly regarded by most resource managers for their ability to provide a wide variety of benefits. They are a classic example of multiple use land, providing summer range for livestock, prime habitat for many species of wildlife, productive watersheds and recreational areas. Despite the importance of these vegetation types there is little information on their ecology. The lack of information makes it very difficult to development management prescriptions for multiple use.

The purpose of this guide was to develop a framework that would easily group the plant community types utilized by livestock in the Dry and Central Mixedwood subregions of the province.

It is hoped this classification system can be used by field staff to assess the ecology and carrying capacity of the sites, in order to develop management prescriptions on lands within each region. This guide supplements the work done by Beckingham and Archibald (1996) on the forested community types in the Boreal Mixedwood of northern Alberta. Their guide is a good description of the forested community types found within the subregion, but it does not include forage production values and carrying capacities. It also does not provide a description of the native shrubland and grassland communities which are utilized extensively by livestock in these subregions.

Climate

Dry Mixedwood subregion

The Dry Mixedwood subregion represents a transition between the Central and Peace River Parklands and the Central Mixedwood subregions. This subregion occurs in three areas of the province. One section is located between the Central Parkland and the Central Mixedwood subregions in the southern portion of the boreal forest and includes the Onion Lake, Athabasca, Westlock plains and Whitefish and Frog Uplands ecodistricts (Strong and Thompson 1995). A second area is located immediately east of Edmonton in the Cooking Lake upland ecodistrict. The third and largest area parallels the Peace River in northwestern Alberta from Grande Prairie to Fort Vermillion and includes the Debolt, Dunvegan, Falher, Smoky, Grimshaw, Manning, High Level and Boyer plains ecodistricts (Map 1).

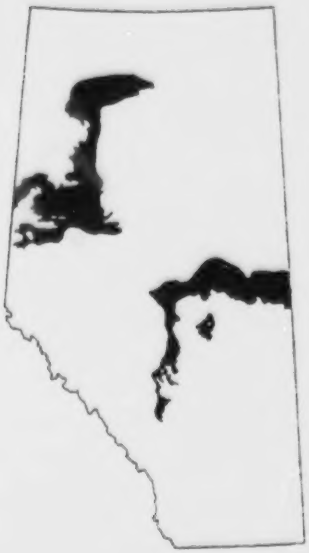
Mean summer temperature averages 13.8°C and winter temperatures average -10.5 °C, which is somewhat warmer than the Central Mixedwood subregion and somewhat cooler than the Parkland subregions. Mean annual precipitation averages 380 mm which is drier than the Central Mixedwood, but wetter than the Parkland subregions.

The reference plant community in this subregion is dominated by Aspen, with a variable understorey dominated by rose, pea-vine, beaked hazelnut, saskatoon and marsh reedgrass. Jack pine stands are found on well drained, coarse-textured parent materials and poorly drained sites are dominated by black spruce, willows and sedge species.

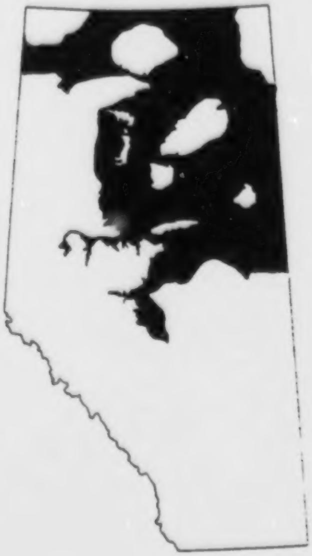
Central Mixedwood subregion

This subregion is the largest in the province covering over 210,000 km^2 or nearly 32% of the province (Strong and Leggat 1992)(Map 2). Mean annual summer temperatures average 13.5 °C and winter temperatures average -13 °C, which is somewhat colder than the adjacent Dry Mixedwood subregion. Annual precipitation averages 397 mm of precipitation which is wetter than the Dry Mixedwood.

The modal plant communities are vegetated by aspen and balsam poplar with understories composed of a variety of herbs and deciduous shrubs. White spruce and balsam fir are the climatic climax species but are not well represented because of the frequent occurrence of fire. On dry, well drained, coarse-textured soils jack pine dominates and the poorly drained sites are dominated by black spruce, willows and sedge species. These reference communities are very similar to the Dry Mixedwood subregion, but the drier conditions of the Dry Mixedwood favours the formation of a number of native grassland communities, which are not found in the Central Mixedwood.



Map 1. Location of the Dry Mixedwood subregion in Alberta



Map 2. Location of the Central Mixedwood subregion in Alberta

Methods

A community type approach (Mueggler 1988) to classification was chosen in preference to the habitat type approach (Daubenmire 1952) or ecosystem association approach (Corns and Annas 1986) because of the lack of understanding of the successional sequences of the communities. Community types are aggregates of similar plant communities based upon existing floristics regardless of successional status (Mueggler 1988). Community types are what is actually seen in the field. After defining the community types, they then can be linked to the ecosystem associations developed by Corns and Annas (1986) and Beckingham and Archibald (1996). In the mean time community types can be used as the basis for mapping and range management planning.

Individual plots were initially classified within a forest region using cluster analysis (SAS) and ordination (DECORANA, Gauch 1982). These types were described in individual carrying capacity guides for each forest. This led to differences in classification of the same types between forests, particularly for deciduous forest types. In an effort to standardize the community name and gain some understanding of each community types ecology, all plots sampled in each forest were reclassified. As the study progressed it became quite evident that there were differences in the productivity of the communities between subregions. As a result, it was decided to develop the classification within the subregion framework. A subregion is a geographical area that has broad vegetation zones combined with climatic data. As a result, the vegetation within each subregion is strongly influenced by the climatic conditions.

Sampling for this guide occurred within the Dry and Central Mixedwood subregions . This guide outlines the preliminary classification of 539 plots.

The procedure for inventory followed the Range Survey Manual (1992) and uses the MF5 form. A plot consisted of a 10x10 m macroplot and ten randomly selected 1x1 m microplots to record the canopy cover of shrubs and ten nested 20x50 cm microplots to record the canopy cover of forbs and grass. At each macroplot a 50x100 cm was clipped and separated into trees, shrubs, forbs and graminoids, oven dried and weighed. The recommended stocking rate is based on 25 percent of the total production for forested types and 50% total production for grass and shrubland types and the fact that one animal requires 455 kg of dry weight material for one month of grazing.

How to use the guide

There are two methods to key range plant community types in this guide. The first method includes a key within the categories of tame grass, native grass and shrub, deciduous, mixedwood and conifer. The second method involves using moisture, nutrients and the ecosite guides to key the plant community types.

Method one(key to community types)

First decide what subregion you are in. Then decide the appropriate category the community type is in within each subregion. If the area has been cleared of trees, broken, and seeded down to tame forage species such as timothy or creeping red fescue, the community will be in the TAME GRASS category. If the area does not have an overstory tree canopy and has not been cleared and broken, the community will fall under the NATIVE GRASS and SHRUBLANDS category. The DECIDUOUS category includes all plant communities that are dominated by deciduous tree species. Communities which have begun to undergo succession from a deciduous to a conifer dominated overstory with an overstory cover greater than 15% for both deciduous and coniferous species fall into the MIXEDWOOD category. Those communities dominated by a conifer overstory, White spruce, Black spruce or Jack pine are classified in the CONIFER category. Four plots were sampled in deciduous cutblocks. These plots were included in the deciduous category under deciduous cutblocks.

Method two(key to moisture, nutrients and ecosites)

In order to understand how the community types in this guide are related to the ecosites and ecosite phases outlined in "Ecosites of Northern Alberta" (Beckingham and Archibald 1996), the community types in this guide are arranged by ecosite and ecosite phase (Table 1). **Ecosites** are defined as ecological units that develop under similar environmental influences (climate, moisture and nutrient regime). An **ecosite phase** is a subdivision of the ecosite based on the dominant species in the canopy. Table 1 and Table 6 are a reproduction of Figure 11 in the Ecosites of Northern Alberta guide with the community types in this guide separated into range plant communities, grazing succession communities and harvesting and fire communities. For the most part the ecosites and ecosite phases are the same, particularly for the forested community types, but a number of new ecosites had to be created for the grass and shrubland community types (Table 1 and 6). These included the (bb)(subxeric/medium) grassland and the (dd)(mesic/rich) grassland in the Dry Mixedwood (Table 1) and the (aa)(xeric/poor) grassland, in both the Dry and Central Mixedwood (Table 1 and 6). A number of new ecosite phases were also created in both subregions. These included, (aa1) Plains wormwood grassland, (bb1) Western porcupine grass grassland, (bb2) Northern wheatgrass grassland, (d4) shrubland, (dd1) california oatgrass-slender wheatgrass grassland, (f4) horsetail/willow, and (f5) horsetail Bw in the Dry Mixedwood subregion (Table 1). In the Central Mixedwood subregion the new ecosite phases included, (aa1) plains wormwood, (d4)shrubland, and (e4) shrubland (Table 6). The "Grazing succession" or "Harvesting and Fire succession" categories (Table 1and 6) outline the successional sequence the community type will undergo with increased grazing pressure or with harvesting or fire disturbance. There are a number of ecosite phase tables which summarize these successional communities. These include (d1) grazed Aw, (d1) harvested Aw, (k2) grazed willow, and (k3) grazed meadow in the Dry Mixedwood subregion. In the Central Mixedwood subregion these include (d1) grazed Aw, (d1) burned Aw, (d3) burned Sw and (k2) grazed willow. DM refers to Dry Mixedwood subregion and CM refers to Central Mixedwood subregion in the community type numbering system.

The majority of ecosite and ecosite phase summary tables are described in the guide to "Ecosites of Northern Alberta" (Beckingham and Archibald 1996). Any new ecosites and ecosite phases described in this guide are summarized before the community type descriptions. The rest of the guide includes a description of dominant plant species, canopy cover, environmental conditions, response to grazing, forage production and carrying capacity for each range community type.

Results

The analysis of the 539 plots distinguished 99 community types in the two subregions. These types were split into 4 categories within each subregion:

Dry Mixedwood subregion (begins on page 7)

DMA. Native grass and shrubland	17 types
DMB. Tame grasslands	9 types
DMC. Deciduous community types	17 types
DMD. Mixedwood and Conifer community types	10 types

Central Mixedwood subregion (begins on page 103)

CMA. Native grass and shrubland	12 types
CMB. Tame grasslands	7 types
CMC. Deciduous community types	17 types
CMD. Mixedwood and Conifer community types	10 types

The dominant plant species, canopy cover, environmental conditions, forage production and carrying capacity (when available) are outlined for each community type.

Table 1. Ecosites, ecosite phases and forested and range plant community types for the Dry Mixedwood subregion (adapted from Beckingham and Archibald 1996).

Ecosite	Ecosite Phase	Forested Plant Community Type	Range Plant Community Type	Grazing succession	Harvesting and Fire succession
aa grassland (xeric/poor)	aa1 plains wormwood		DMA3. Plains wormwood/Sedge		
a lichen (subxeric/poor)	a1 lichen Pj	a1.1 Pj/bearberry/lichen			
		a1.2 Pj/blueberry/lichen			
		a1.3 Pj/green alder/lichen	DMD1 Pj/Alder		
aa grassland (subxeric/medium)	bb1 Western porcupine grass		DMA5 Western porcupine grass-Sedge/Fringed sage		
	bb2 Northern wheatgrass		DMA6 Northern wheatgrass -Junegrass/Fringed sage		
b blueberry (submesic/medium)	b1 blueberry Pj-Aw	b1.1 Pj-Aw/blueberry - bearberry	DMD2 Pj-Aw/Bearberry		
		b1.2 Pj-Aw/blueberry - green alder			
		b1.3 Pj-Aw/blueberry - Labrador tea			
	b2 blueberry Aw(Bw)	b2.1 Aw(Bw)/blueberry - bearberry	DMC1. Aw/Rose/Bearberry DMC12. Aw/Rose-Blueberry		
		b2.2 Aw(Bw)/blueberry - green alder			
		b2.3 Aw(Bw)/blueberry - Labrador tea			

Ecosite	Ecosite Phase	Forested Plant Community Type	Range Plant Community Type	Grazing succession	Harvesting and Fire succession
	b3 blueberry Aw-Sw	b3.1 Aw-Sw/blueberry - bearberry	DMD2a Aw-Sw/Bearberry		
		b3.2 Aw-Sw/blueberry - green alder			
		b3.3 Aw-Sw/blueberry - Labrador tea			
	b4 blueberry Sw-Pj	b4.1 Sw-Pj/blueberry - bearberry	DMD3 Sw/Buffaloberry/Bearberry		
		b4.2 Sw-Pj/blueberry - green alder			
c Labrador tea - mesic (mesic/poor)	c1 Labrador tea - mesic Pj-Sb	c1.1 Pj-Sb/Labrador tea/feather moss			
		c1.2 Pj-Sb/green alder/feather moss			
		c1.3 Pj-Sb/feather moss			
d low-bush cranberry (mesic/medium)	d1 low-bush cranberry Aw	d1.1 Aw/Canada buffalo-berry	DMC5. Aw/Buffaloberry-Rose		
		d1.2 Aw/saskatoon-pin cherry	DMC7. Aw/Saskatoon-Rose		
		d1.3 Aw/beaked hazelnut	DMC4. Aw/Rose-Hazelnut DMC13. Aw/Hazelnut-Rose/Peavine DMC14. Aw/Hazelnut-Rose/Wild sarsaparilla		
		d1.4 Aw/green alder	DMC6. Aw/Alder		
		d1.5 Aw/low-bush cranberry	DMC11. Aw/Rose-Low bush cranberry		
		d1.6 Aw/rose	DMC2. Aw/Rose/Tall forb DMC15. Aw/Rose/Forb/Marsh reedgrass	DMC3. Aw/Rose/Low forb	DMC10. Deciduous cutblocks

Ecosite	Ecosite Phase	Forested Plant Community Type	Range Plant Community Type	Grazing succession	Harvesting and Fire succession
		d1.7 Aw/beaked willow	DMC8a Aw/Willow		
		d1.8 Aw/forb			
		d1.9 Aw/balsam fir			
	d2 low-bush cranberry Aw-Sw	d2.1 Aw-Sw/Canada buffalo-berry			
		d2.2 Aw-Sw/beaked hazelnut			
		d2.3 Aw-Sw/green alder			
		d2.4 Aw-Sw/low-bush cranberry	DMD5 Aw-Sw/Rose/Marsh reedgrass		
		d2.5 Aw-Sw/rose			
		d2.6 Aw-Sw/forb			
		d2.8 Aw-Sw/balsam fir/feather moss			
		d2.9 Aw-Sw/feather moss			
	d3 low-bush cranberry Sw	d3.1 Sw/Canada buffalo-berry			
		d3.2 Sw/green alder			
		d3.3 Sw/low-bush cranberry	DMD7 Sw-Pb-Aw/Rose/Twinflower		
		d3.4 Sw/balsam fir/feather moss			
		d3.5 Sw/feather moss	DMD4 Sw/Hazelnut/Moss		

Ecosite	Ecosite Phase	Forested Plant Community Type	Range Plant Community Type	Grazing succession	Harvesting and Fire succession
	d4 shrubland		DMA7. Saskatoon -Snowberry/ Hairy wildrye	DMA8. Saskatoon/ Sweet clover/ Smooth brome	
dd grassland (mesic/rich)	dd1 california oatgrass-slender wheatgrass		DMA4 Purple oatgrass/Sedge - California oatgrass DMA4a Veiny meadow rue/Slender wheatgrass-Fringed brome		
e dogwood (subhygric/rich)	e1 dogwood Pb-Aw	e1.1 Pb-Aw/dogwood/fern	DMC8. Pb/Red osier dogwood-Rose		
		e1.2 Pb-Aw/bracted honeysuckle/fern	DMC16. Pb-Aw/Rose		
		e1.3 Pb-Aw/river alder/fern			
	e2 dogwood Pb-Sw	e2.1 Pb-Sw/dogwood/fern			
		e2.2 Pb-Sw/bracted honeysuckle/fern	DMD6 Aw-Pb-Sw/Willow/Wild sarsaparilla		
		e2.3 Pb-Sw/river alder-green alder/fern			
		e2.4 Pb-Sw/balsam fir/fern			
		e2.5 Pb-Sw/fern/feather moss			
	e3 dogwood Sw	e3.1 Sw/dogwood/fern			
		e3.2 Sw/green alder-river alder/fern			
		e3.3 Sw/balsam fir/fern			
		e3.4 Pb-Sw/fern/feather moss			
f horsetail (hygric/rich)	f1 horsetail Pb-Aw	f1.1 Pb-Aw/horsetail	DMC9. Aw/Horsetail		

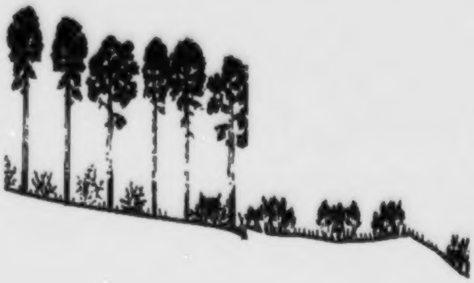
Ecosite	Ecosite Phase	Forested Plant Community Type	Range Plant Community Type	Grazing succession	Harvesting and Fire succession
	f3 horsetail Sw	f3.1 Sw-horsetail			
		f3.2 Sw/feather moss			
	f4 horsetail/willow		DMA12. Willow/Horsetail/Marsh reedgrass		
	f5 horsetail Bw		DMA13. Paper birch-Alder/ Horsetail		
g Labrador tea - subhygric (subhygric/poor)	g1 Labrador tea - subhygric Sb-Pj	g1.1 Sb-Pj/Labrador tea/feather moss			
		g1.2 Sb-Pj/feather moss			
h Labrador tea/horsetail (hygric/medium)	h1 Labrador tea/horsetail Sw-Sb	h1.1 Sw-Sb/Labrador tea/horsetail			
		h1.2 Sw-Sb/Labrador tea/feather moss			
i bog (subhygric/very poor)	i1 treed bog	i1.1 Sb/Labrador tea/cloudberry/peat moss	DMD9 Sb-Lt/Labrador tea/Moss		
	i2 shrubby bog	i2.1 Sb/Labrador tea/cloudberry/peat moss			
j poor fen (subhydric/medium)	j1 treed poor fen	j1.1 Sb-Lt/dwarf birch/sedge/peat moss	DMD8 Sb/Willow/Moss		
	j2 shrubby poor fen	j2.1 Sb-Lt/dwarf birch/sedge/peat moss			
k rich fen (subhydric/rich)	k1 treed rich fen	k1.1 Lt/dwarf birch/sedge/golden moss			
	k2 shrubby rich fen	k2.1 dwarf birch/sedge/golden moss			
		k2.2 willow/sedge/brown moss	DMA10. Willow/Sedge	DMA14 Willow/ Kentucky bluegrass /Dandelion	

Ecosite	Ecosite Phase	Forested Plant Community Type	Range Plant Community Type	Grazing succession	Harvesting and Fire succession
		k2.3 willow/marsh reed grass	DMA10a Willow/Marsh reedgrass	DMA11. Willow/Marsh reedgrass-Kentucky bluegrass	
	k3 graminoid rich fen	k3.1 sedge fen	DMA1. Sedge meadow		
		k3.2 marsh reed grass fen	DMA2. Marsh reedgrass meadow	DMA9. Kentucky bluegrass-Rough hairgrass	
l marsh (hydric/rich)	l1 marsh	l1.1 cattail marsh	DMA1a Bulrush-Cattail		
		l1.2 reed grass marsh			
		l1.3 bulrush marsh			

aa grass/shrubland (n=2) xeric/poor

GENERAL DESCRIPTION

This ecosite is associated with small grassy openings within Jack pine and aspen forests. This site has dry conditions, with rapidly drained, nutrient poor soils. The parent materials are generally coarse textured eolian, glacialfluvial or fluvial eolian in origin. The high insolation and dry site conditions favour the growth of grassland species. These include Northern ricegrass, slender wheatgrass, Sedge, bearberry and plains wormwood In the moister sites (lower slope positions) aspen and shrubs (saskatoon, rose) are quite common.

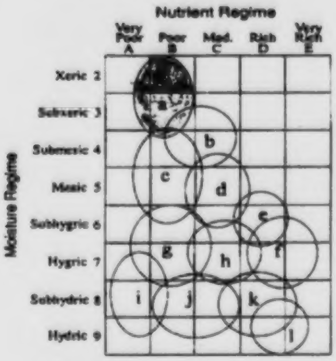


SUCCESSIONAL RELATIONSHIPS

Due to the nature of the site grasslands often remain the climax vegetation on these sites. In the moister lower slope positions shrubs often dominate the site with succession to aspen and spruce. On the drier hilltops and midslopes grasslands dominated by plains wormwood and northern ricegrass usually represent the climax vegetation. Heavy grazing pressure on the grasslands can often lead to a degraded site that is dominated by kentucky bluegrass on the moister sites.

INDICATOR SPECIES

Saskatoon
Rose
Snowberry
Beaked hazelnut
Plains wormwood
Bearberry
Strawberry
Sheep fescue
Northern ricegrass
Slender wheatgrass
Hairy wildrye



SITE CHARACTERISTICS

Moisture regime: xeric, subxeric, submesic
Nutrient regime: poor, medium
Topographic position: crest, upper, mid to lower slope
Slope: (0-2%) (5-10%)
Aspect: south, southwest, west

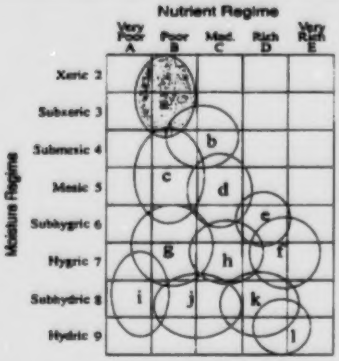
SOIL CHARACTERISTICS

Organic thickness: (0-2)
Humus form: mor
Surface texture: SL,L
Effective texture: SL, S
Depth to Mottles/Gley: none
Drainage: rapid, well
Parent material: E, GF,FE,F
Soil subgroup: O.EB, E.DYB O.R, E.EB

ECOSITE PHASES

aa1 Plains wormwood (2)

aa1 Plains wormwood (n=2)


Nutrient Regime
Very Poor A
Poor B
Med. C
Rich D
Very Rich E
Moisture Regime
Xeric 2
Subxeric 3
Submesic 4
Mesic 5
Subhygric 6
Hygric 7
Subhydric 8
Hydric 9
b
c
d
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CHARACTERISTIC SPECIES

Forb

[8] Scouring rush
[12] Plains wormwood*
[1] Low goldenrod
[1] American vetch
[1] Yellow beardstongue
[10] Common yarrow

Grasses

[18] Sedge species*
[2] Sheep fescue*
[2] Creeping red fescue
[5] Kentucky bluegrass

SITE CHARACTERISTICS

Moisture regime: xeric, subxeric
Nutrient regime: poor,
Topographic position: crest, upper slope, midslope
Slope: 5-10%, 10-20%
Aspect: westerly, southerly

SOIL CHARACTERISTICS

Organic thickness: (0-2)
Humus form: mor
Surface texture: S, SL
Effective texture: S
Depth to Mottles/Gley: none
Drainage: rapid, well
Parent material: E, GF, FE
Soil subgroup: O.R, O.EB, E.EB

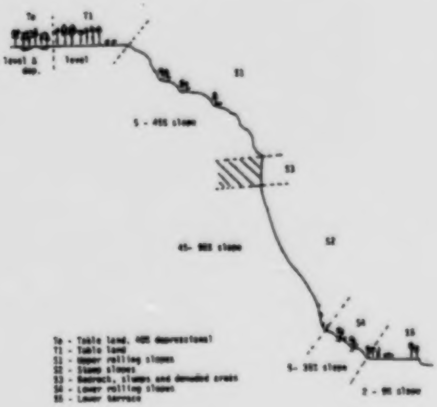
RANGE PLANT COMMUNITY TYPES

DMA3. Plains wormwood/Sedge

bb grassland (n=20)

GENERAL DESCRIPTION

This ecosite is associated with the south and west facing slopes along the Peace, Smoky and Wapiti rivers in the Dry Mixedwood subregion of Northwestern Alberta. This site has dry conditions, with rapidly drained, nutrient rich soils. The parent materials are generally glacio lacustrine, morainal, colluvial and fluvial in origin. The high insolation and dry site conditions favour the growth of grassland species. These include Western porcupine grass, Northern wheatgrass, Junegrass, Sedge and Fringed sage. In the moister draws aspen and shrubs (snowberry, saskatoon, chokecherry) are quite common.


Te
Tl
level & dep.
level
S1
5 - 45% slope
S3
45- 90% slope
S2
S4
S5
5- 30% slope
2 - 9% slope
Te - Table land, 40% depressional
Tl - Table land
S1 - Upper rolling slopes
S2 - Slump slopes
S3 - Bedrock, slumps and denuded areas
S4 - Lower rolling slopes
S5 - Lower terrace

(Adams 1981)

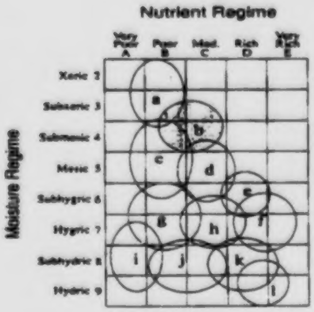
SUCCESSIONAL RELATIONSHIPS

Due to the nature of the site grasslands often remain the climax vegetation on these sites. In the moister draws and lower slope positions aspen and spruce can succeed onto these grasslands. Frequent fire will often control the succession to trees in the moist areas. Heavy grazing pressure on the grasslands can often lead to a degraded site that is dominated by fringed sage, upland sedges and junegrass.

INDICATOR SPECIES

Western porcupine grass
Northern wheatgrass
Junegrass
Upland sedge
Green needlegrass
Fringed sage
Snowberry
Saskatoon

subxeric/medium


Nutrient Regime
Very Poor A
Poor B
Med. C
Rich D
Very Rich E
Xeric 2
Subxeric 3
Submesic 4
Mesic 5
Subhygric 6
Hygric 7
Subhydric 8
Hydric 9
Moisture Regime
a
b
c
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SITE CHARACTERISTICS

Moisture regime: subxeric, submesic
Nutrient regime: poor, medium, rich
Topographic position: crest, upper slope, midslope
Slope: 27%,45%,90%
Aspect: south, southwest, west

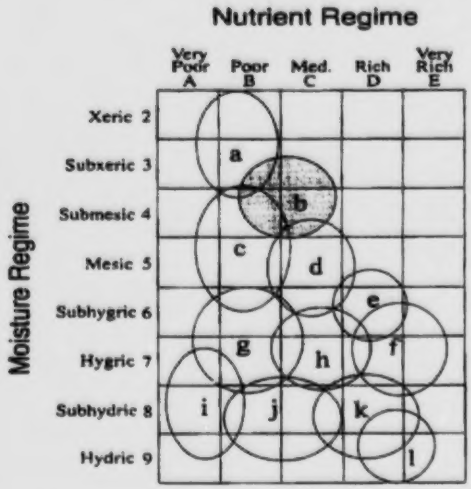
SOIL CHARACTERISTICS

Organic thickness: (0-2)
Humus form: mull
Surface texture: L,CL
Effective texture: C, SCL
Depth to Mottles/Gley: none
Drainage: rapid, well
Parent material: GF, M, C, F
Soil subgroup: O.BL, R.BL, O.MB, S.GL,CA.DB,O.B,O.EB

ECOSITE PHASES

bb1 Western porcupine grass (7)
bb2 Northern wheatgrass (13)

bb1 Western porcupine grass (n=7)


Nutrient Regime
Very Poor A
Poor B
Med. C
Rich D
Very Rich E
Xeric 2
Subxeric 3
Submesic 4
Mesic 5
Subhygric 6
Hygric 7
Subhydric 8
Hydric 9
Moisture Regime
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CHARACTERISTIC SPECIES

Shrub

[8]	Fringed sage*
[1]	Saskatoon
[2]	Snowberry

Forb

[1]	Little leaved everlasting
[1]	White camas
[1]	Loose flowered milkvetch
[2]	Prairie crocus
[1]	Wild blue flax

Grasses

[15]	Western porcupine grass*
[15]	Sedge species*
[5]	Green needle grass*
[6]	Junegrass*
[1]	Western wheatgrass
[1]	Kentucky bluegrass
[2]	Northern wheatgrass

SITE CHARACTERISTICS

Moisture regime: subxeric, submesic
Nutrient regime: medium, rich
Topographic position: crest, upper slope, midslope
Slope: 25-35%, 35-72%
Aspect: westerly, southerly

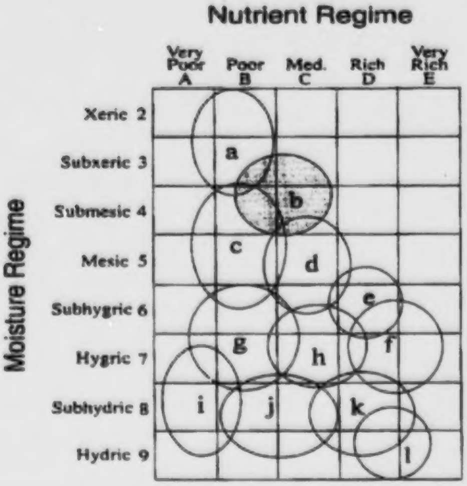
SOIL CHARACTERISTICS

Organic thickness: (0-2)
Humus form: mull
Surface texture: L,CL
Effective texture: C, SCL
Depth to Mottles/Gley: none
Drainage: rapid, well
Parent material: GF, M, C, F
Soil subgroup: O.BL, R.BL, O.MB, S.GL, CA.DB,O.B, O.EB

RANGE PLANT COMMUNITY TYPES

DMA5. Western porcupine grass-Sedge/Fringed sage

bb2 Northern wheatgrass (n=13)


Nutrient Regime
Very Poor A
Poor B
Med. C
Rich D
Very Rich E
Moisture Regime
Xeric 2
Subxeric 3
Submesic 4
Mesic 5
Subhygric 6
Hygric 7
Subhydric 8
Hydric 9
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CHARACTERISTIC SPECIES

Shrub

[6]	Fringed sage*
[6]	Saskatoon
[3]	Snowberry
[3]	Rose

Forb

[1]	Little leaved everlasting
[1]	Lindley's aster
[1]	Showy locoweed
[1]	Cut leaved anemone
[1]	Wild blue flax
[2]	Dandelion

Grasses

[3]	Sedge species*
[2]	Green needle grass*
[5]	Junegrass*
[3]	Western wheatgrass
[1]	Richardson's needlegrass
[10]	Northern wheatgrass*

SITE CHARACTERISTICS

Moisture regime: xeric, subxeric
Nutrient regime: poor, medium
Topographic position: crest, upper slope, midslope
Slope: 10-90%
Aspect: westerly, southerly

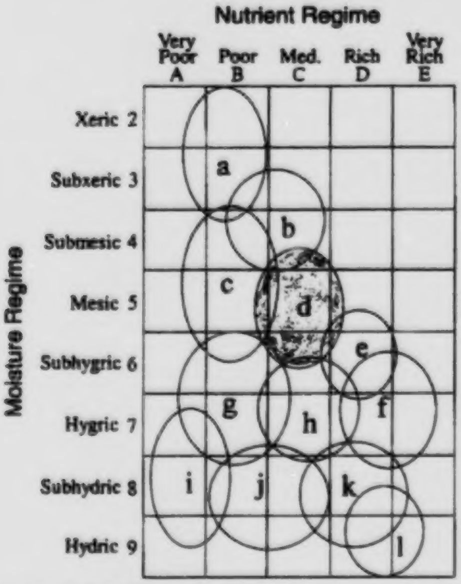
SOIL CHARACTERISTICS

Organic thickness: (0-2)
Humus form: mull
Surface texture: L,CL
Effective texture: C, SCL
Depth to Mottles/Gley: none
Drainage: rapid, well
Parent material: GF, M, C, F
Soil subgroup: O.R, O.MB, O.EB, O.B, SZ.GL

RANGE PLANT COMMUNITY TYPES

DMA6. Northern wheatgrass-Junegrass/Fringed sage

d4 Saskatoon-Snowberry (n=11)


Nutrient Regime
Very Poor A
Poor B
Med. C
Rich D
Very Rich E
Moisture Regime
Xeric 2
Subxeric 3
Submesic 4
Mesic 5
Subhygric 6
Hygric 7
Subhydric 8
Hydric 9
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CHARACTERISTIC SPECIES

Tree

[4]	Aspen

Shrub

[2]	Beaked hazelnut
[17]	Saskatoon*
[15]	Snowberry*
[23]	Rose*

Forb

[3]	Northern bedstraw
[1]	Strawberry
[2]	Yellow peavine
[2]	Lindley's aster
[2]	American vetch
[1]	Bearberry
[2]	Common yarrow

Grasses

[4]	Sedge species*
[1]	Northern ricegrass
[3]	Smooth brome
[2]	Slender wheatgrass*
[1]	Kentucky bluegrass
[2]	Hairy wildrye

SITE CHARACTERISTICS

Moisture regime: submesic, mesic
Nutrient regime: medium
Topographic position: lower slope, midslope
Slope: 0-72%
Aspect: westerly, southerly

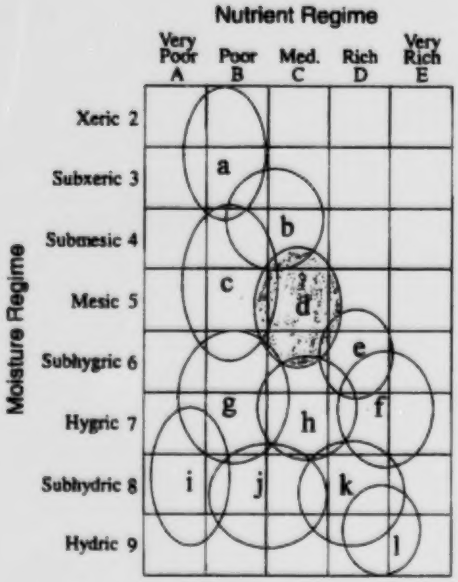
SOIL CHARACTERISTICS

Organic thickness: (0-2)
Humus form: mor
Surface texture: L, SL
Effective texture: S, SL
Depth to Mottles/Gley: none
Drainage: rapid, well
Parent material: GF, M, C, F, GL
Soil subgroup: O.R, O.MB, O.EB, DG.SO, BR.GL

RANGE PLANT COMMUNITY TYPES

DMA7. Saskatoon-Snowberry/Hairy wildrye
DMA8. Saskatoon/Sweet clover/Smooth brome

d1 Grazed Aw (n=54)


Nutrient Regime
Very Poor A
Poor B
Med. C
Rich D
Very Rich E
Moisture Regime
Xeric 2
Subxeric 3
Submesic 4
Mesic 5
Subhygric 6
Hygric 7
Subhydric 8
Hydric 9
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CHARACTERISTIC SPECIES

Tree

[48]	Aspen*
[1]	Balsam poplar

Shrub

[6]	Raspberry
[1]	Low bush cranberry
[4]	Snowberry
[14]	Rose*

Forb

[2]	Northern bedstraw
[4]	Strawberry*
[4]	Yellow peavine
[4]	Bunchberry*
[3]	Lindley's aster
[3]	Wild lily-of-the-valley*
[3]	Dewberry
[4]	Wintergreen*
[1]	Dandelion*
[1]	Clover species*

Grasses

[2]	Marsh reedgrass
[3]	Hairy wildrye
[1]	Purple oatgrass*
[2]	Slender wheatgrass*
[1]	Kentucky bluegrass

SITE CHARACTERISTICS

Moisture regime:, mesic
Nutrient regime: medium
Topographic position: mid, lower slope, level
Slope: 0-5%
Aspect: variable

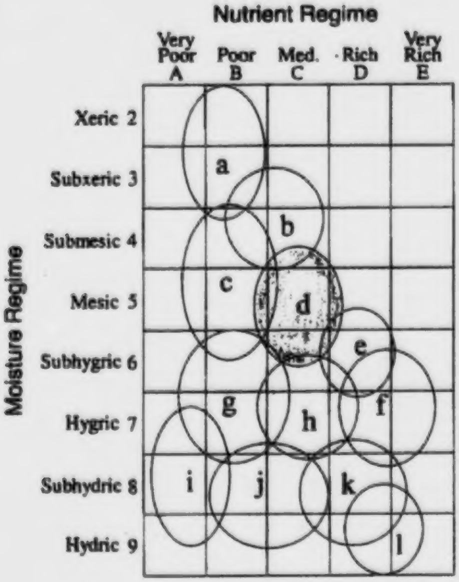
SOIL CHARACTERISTICS

Organic thickness: (6-15), (0-5)
Humus form: mor, raw moder
Surface texture: SiL, SL, S, L
Effective texture: C, SiC, CL, SCL, SiCL
Depth to Mottles/Gley: none, (0-25)
Drainage: well, mod. well, imperfect
Parent material: GF, M, GL
Soil subgroup: O.GL, GR.GL, GL.GL

RANGE PLANT COMMUNITY TYPES

DMC3. Aw/Rose/Low forb

d1 Harvested Aw (n=4)


Nutrient Regime
Very Poor
A
Poor
B
Med.
C
Rich
D
Very Rich
E
Xeric 2
Subxeric 3
Submesic 4
Mesic 5
Subhygric 6
Hygric 7
Subhydric 8
Hydric 9
Moisture Regime
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CHARACTERISTIC SPECIES

Tree

[20]	Aspen
[1]	Balsam poplar

Shrub

[5]	Raspberry
[2]	Saskatoon
[3]	Snowberry
[19]	Rose
[2]	Low bush cranberry

Forb

[4]	Northern bedstraw
[21]	Strawberry
[1]	Yellow peavine
[4]	Lindley's aster
[1]	American vetch
[4]	Fireweed
[1]	Bunchberry

Grasses

[17]	Marsh reedgrass
[2]	Northern ricegrass
[1]	Hairy wildrye
[1]	Slender wheatgrass
[2]	Timothy

SITE CHARACTERISTICS

Moisture regime:, mesic
Nutrient regime: medium
Topographic position: mid, lower slope, level
Slope: 0-5%
Aspect: variable

SOIL CHARACTERISTICS

Organic thickness: (6-15), (0-5)
Humus form: mor, raw moder
Surface texture: SiL, SL, S, L
Effective texture: C, SiC, CL, SCL, SiCL
Depth to Mottles/Gley: none, (0-25)
Drainage: well, mod. well, imperfect
Parent material: GF, M, GL
Soil subgroup: O.GL, GR.GL, GL.GL

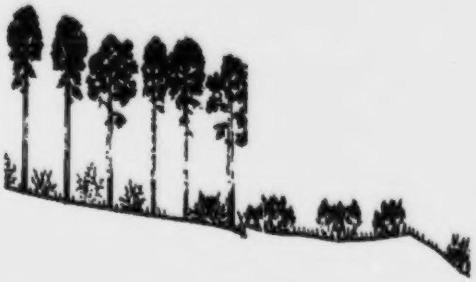
RANGE PLANT COMMUNITY TYPES

DMC10. Deciduous cutblocks

dd grassland (n=6) mesic/rich

GENERAL DESCRIPTION

This ecosite is associated with the remnant prairies located throughout the Peace River district of Alberta. This site is associated with the dark colored solonetzic and chernomzic soils of the region. The parent materials are generally fine textured, slightly saline, fluvial, lacustrine or lacustrine-till in origin. The hard impermeable B horizon and slightly saline conditions tend to favour the growth of grassland species. These include Western porcupine grass, slender wheatgrass, sedge, California oatgrass and fringed sage Trees appear to be gradually moving into the old prairie remnants where the unfavorable characteristics of the solonetzic soils have been improved from many of the agricultural practices in the area.

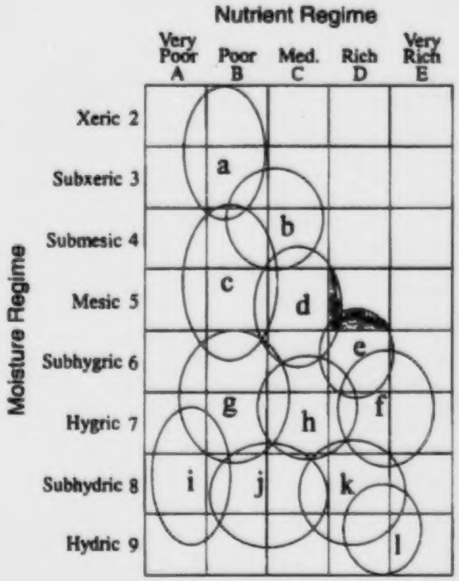


SUCCESSIONAL RELATIONSHIPS

Due to the nature of the site grasslands often remain the climax vegetation on these sites. However, industrial activities have greatly modified the original vegetation cover. Heavy grazing pressure on the remnant grasslands can often lead to a degraded site that is dominated by purple oatgrass, sedge, Kentucky bluegrass, dandelion and smooth brome.

INDICATOR SPECIES

Saskatoon
Rose
Snowberry
Strawberry
Veiny meadow rue
Dandelion
Common yarrow
Purple oatgrass
Western porcupine grass
Slender wheatgrass
Kentucky bluegrass
Sedge species
California oatgrass



SITE CHARACTERISTICS

Moisture regime: mesic, submesic
Nutrient regime: medium, rich
Topographic position: level, lower slope
Slope: (0-5%)
Aspect: south, southwest, west

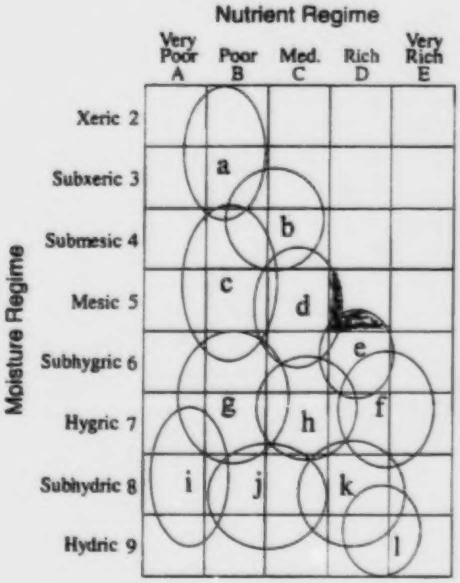
SOIL CHARACTERISTICS

Organic thickness: (0-5)
Humus form: mull
Surface texture: L, SiCL
Effective texture: C, CL
Depth to Mottles/Gley: none
Drainage: well, mod. well
Parent material: L
Soil subgroup: DB.SO, BL.SO, DB.SS, BL.SS, O.DB, R.DB

ECOSITE PHASES

dd1 california oatgrass-slender wheatgrass

dd1 california oatgrass-slender wheatgrass (n=6)


Nutrient Regime
Very Poor A
Poor B
Med. C
Rich D
Very Rich E
Xeric 2
Subxeric 3
Submesic 4
Mesic 5
Subhygric 6
Hygric 7
Subhydric 8
Hydric 9
Moisture Regime
a
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CHARACTERISTIC SPECIES

Shrub

[1]	Saskatoon
[8]	Snowberry*
[4]	Rose

Forb

[2]	Northern bedstraw
[9]	Strawberry
[5]	Common yarrow
[1]	Three flowered avens
[5]	Dandelion
[10]	Veiny meadow rue*
[4]	American vetch

Grasses

[6]	California oatgrass*
[7]	Western porcupine grass*
[9]	Sedge species*
[14]	Slender wheatgrass*
[8]	Kentucky bluegrass
[3]	Junegrass
[17]	Purple oatgrass*

SITE CHARACTERISTICS

Moisture regime: mesic, submesic
Nutrient regime: medium, rich
Topographic position: level, lower slope
Slope: (0-5%)
Aspect: south, southwest, west

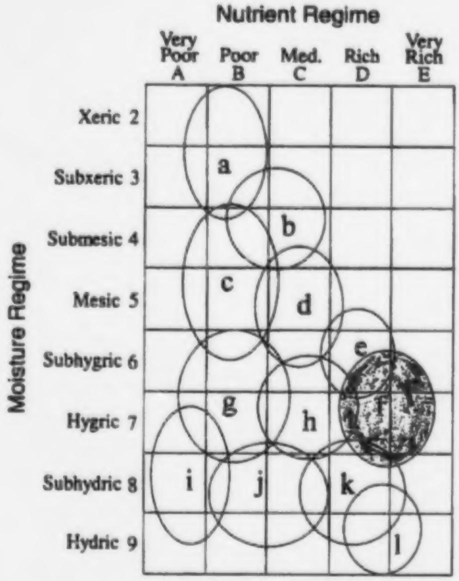
SOIL CHARACTERISTICS

Organic thickness: (0-5)
Humus form: mull
Surface texture: L, SiCL
Effective texture: C, CL
Depth to Mottles/Gley: none
Drainage: well, mod. well
Parent material: L
Soil subgroup: DB.SO, BL.SO, DB.SS, BL.SS

RANGE PLANT COMMUNITY TYPES

DMA4. Purple oatgrass-California oatgrass-Sedge
DMA4a. Veiny meadow rue/Slender wheatgrass-Fringed brome

f4 horsetail/ Willow (n=1)


Nutrient Regime
Very Poor A
Poor B
Med. C
Rich D
Very Rich E
Moisture Regime
Xeric 2
Subxeric 3
Submesic 4
Mesic 5
Subhygric 6
Hygric 7
Subhydric 8
Hydric 9
a
b
c
d
e
f
g
h
i
j
k
l

CHARACTERISTIC SPECIES

Shrub

[65] Willow*
[1] Bracted honeysuckle
[10] Rose

Forb

[18] Horsetail*
[9] Arrow leaved coltsfoot
[8] Lindley's aster
[8] Bishop's cap
[5] Strawberry
[4] Veiny meadow rue
[4] Dewberry
[2] Fireweed

Grasses

[23] Marsh reedgrass*
[1] Hair-like sedge
[2] Slender wheatgrass

SITE CHARACTERISTICS

Moisture regime: subhygric, hygric, mesic
Nutrient regime: rich, medium
Topographic position: level, lower slope, toe
Slope: level (2-5%)
Aspect: level, northerly

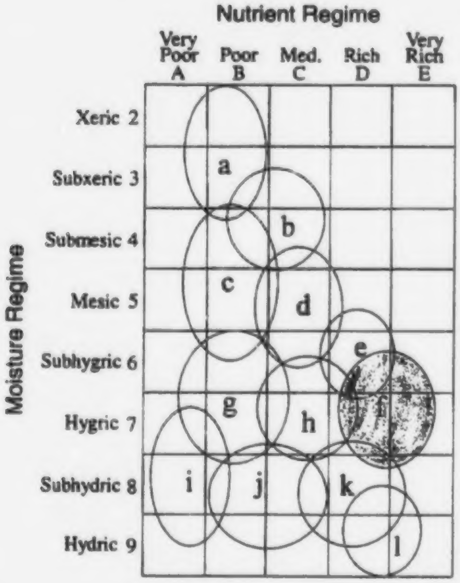
SOIL CHARACTERISTICS

Organic thickness: (6-15)
Humus form: mor
Surface texture: SiL, Si, SiC, CL
Effective texture: SiC, C,
Depth to Mottles/Gley: (0-25)
Drainage: imperfect, poor, mod. well, well
Parent material: F, GL, M
Soil subgroup: O.LG, O.G, CU.R, GLCU.R

RANGE PLANT COMMUNITY TYPES

DMA12. Willow/Horsetail/Marsh reedgrass

f5 horsetail/ Bw (n=1)


Nutrient Regime
Very Poor A
Poor B
Med. C
Rich D
Very Rich E
Moisture Regime
Xeric 2
Subxeric 3
Submesic 4
Mesic 5
Subhygric 6
Hygric 7
Subhydric 8
Hydric 9
a
b
c
d
e
f
g
h
i
j
k
l

CHARACTERISTIC SPECIES

Tree

[25]	Paper birch*
[5]	Larch
[3]	White spruce

Shrub

[8]	Bracted honeysuckle
[45]	River alder*
[3]	Willow

Forb

[27]	Horsetail*
[6]	Dewberry
[5]	Bishop's cap
[3]	Twinflower
[2]	Sweet scented bedstraw
[1]	Purple-stemmed aster
[1]	American vetch

Grasses

[9]	Marsh reedgrass*
[2]	Sedge species

SITE CHARACTERISTICS

Moisture regime: subhygric, hygric, mesic
Nutrient regime: rich, medium
Topographic position: level, lower slope, toe
Slope: level (2-5%)
Aspect: level, northerly

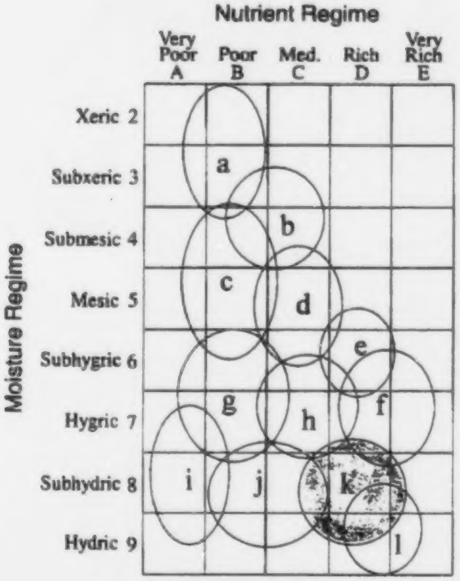
SOIL CHARACTERISTICS

Organic thickness: (6-15)
Humus form: mor
Surface texture: SiL, Si, SiC, CL
Effective texture: SiC, C,
Depth to Mottles/Gley: (0-25)
Drainage: imperfect, poor, mod. well, well
Parent material: F, GL, M
Soil subgroup: O.LG, O.G, CU.R, GLCU.R

RANGE PLANT COMMUNITY TYPES

DMA13. Paper birch/River alder/Horsetail

k2 grazed Willow (n=8)


Nutrient Regime
Very Poor A
Poor B
Med. C
Rich D
Very Rich E
Moisture Regime
Xeric 2
Subxeric 3
Submesic 4
Mesic 5
Subhygric 6
Hygric 7
Subhydric 8
Hydric 9
a
b
c
d
e
f
g
h
i
j
k
l

SITE CHARACTERISTICS

Moisture regime: hydric, subhydric, hygric
Nutrient regime: rich, medium, very rich
Topographic position: level, depression
Slope: level, (2-5%)
Aspect: level

SOIL CHARACTERISTICS

Organic thickness: >80, (6-15)
Humus form: peatymor
Surface texture: fibric, C, mesic, SiL, humic
Effective texture: mesic, C,hC,fibric,SiC, humic
Depth to Mottles/Gley: (0-25)
Drainage: very poor, poor
Parent material: O, GL, L
Soil subgroup: R.G, R.HG, TY.F, O.F

RANGE PLANT COMMUNITY TYPES

DMA11. Willow/Marsh reedgrass-Kentucky bluegrass
DMA14. Willow/Kentucky bluegrass/Dandelion

CHARACTERISTIC SPECIES

Tree

[1]	Balsam poplar

Shrub

[1]	Rose
[14]	Willow*

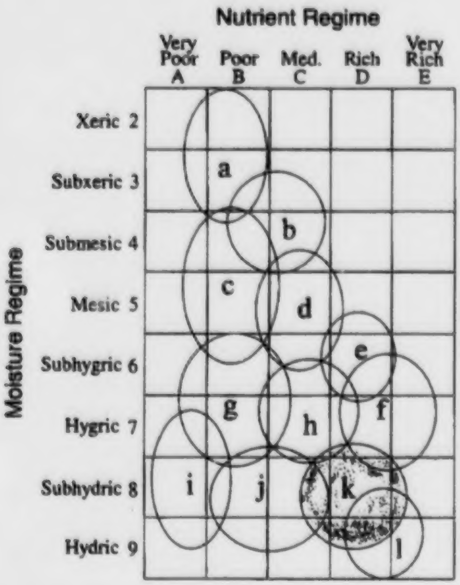
Forb

[22]	Dandelion*
[1]	Clover*
[2]	Mint
[1]	Plantain

Grasses

[16]	Kentucky bluegrass*
[12]	Marsh reedgrass
[1]	Foxtail barley
[1]	Sedge species

k3 grazed meadow (n=1)


Nutrient Regime
Very Poor A
Poor B
Med. C
Rich D
Very Rich E
Moisture Regime
Xeric 2
Subxeric 3
Submesic 4
Mesic 5
Subhygric 6
Hygric 7
Subhydric 8
Hydric 9
a
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CHARACTERISTIC SPECIES

Forb

[60]	Dandelion*
[14]	Strawberry*
[12]	Yellow peavine
[11]	Common yarrow
[7]	Horsetail
[3]	Smooth aster
[3]	American vetch

Grasses

[18]	Kentucky bluegrass*
[16]	Rough hairgrass
[5]	Slender wheatgrass
[4]	Fringed brome
[2]	Sedge species

SITE CHARACTERISTICS

Moisture regime: hydric, subhydric, hygric
Nutrient regime: rich, medium, very rich
Topographic position: level, depression
Slope: level, (2-5%)
Aspect: level

SOIL CHARACTERISTICS

Organic thickness: >80, (6-15)
Humus form: peatymor
Surface texture: fibric, C, mesic, SiL, humic
Effective texture: mesic, C,hC,fibric,SiC, humic
Depth to Mottles/Gley: (0-25)
Drainage: very poor, poor
Parent material: O, GL, L
Soil subgroup: R.G, R.HG, TY.F, O.F

RANGE PLANT COMMUNITY TYPES

DMA9. Kentucky bluegrass-Rough hairgrass

DRY MIXEDWOOD SUBREGION
GRASSLAND AND SHRUBLAND COMMUNITY TYPES

Photo 1. The Western porcupine grass-Sedge/Fringed sage community is found throughout the Dry Mixedwood subregion on the south-facing slopes of the Smoky, Wapiti and Peace Rivers. This community provides early spring forage for both wildlife and cattle.

Photo 2. This picture represents the transition from sedge-marsh reedgrass meadows to willow sedge dominated community types. These community types provide a large amount of forage, but the moist conditions limit their use by livestock.

DM - NATIVE GRASS AND SHRUBLAND COMMUNITIES

The Dry Mixedwood subregion represents the transition between the Boreal forest and Parkland subregions. Aspen Parkland-like vegetation can develop where site conditions or drought conditions occur in combination with the driest climatic conditions (Strong 1992). The Grande Prairie area is an example where a number of these conditions occur. It is within this area that a number of native upland grassland community types have been described. On steep, south-facing slopes of the Smoky, Wapiti and Peace Rivers with subxeric moisture regimes and medium nutrient regimes the Western porcupine grass-Sedge/Fringed sage and Northern wheatgrass/Fringed sage community types are common (Figure 1). The Purple oatgrass-Sedge-California oatgrass community type is found on more upland sites with mesic moisture and medium nutrient regimes. Wilkinson and Johnston (1983) felt these grasslands to be the climax community type on Solonetzic soils. Indeed, Adams (1981) found the Western porcupine grass-Sedge dominated community on the Peace River slopes to be associated with Dark Gray Solods and Solonetzic Gray Luvisols. These grasslands provide important forage locally for both wildlife and domestic livestock. The grasslands of the south-facing river slopes are important spring forage sources because of early spring green-up.

On coarse textured, sandy soil, with submesic moisture and poor nutrient regimes which lack tree cover are found the Plains wormwood/Sedge and Saskatoon/Bearberry/Northern ricegrass community types. These community types are usually found in association with Jack pine dominated community types.

Wetter (subhydric/rich) sites are associated with sedge and marsh reedgrass dominated meadows. Sedge species are usually associated with the areas of free standing water and marsh reedgrass dominates the drier edges. Willow will invade into these meadows to form the Willow/Sedge and Willow/Marsh reedgrass community types.

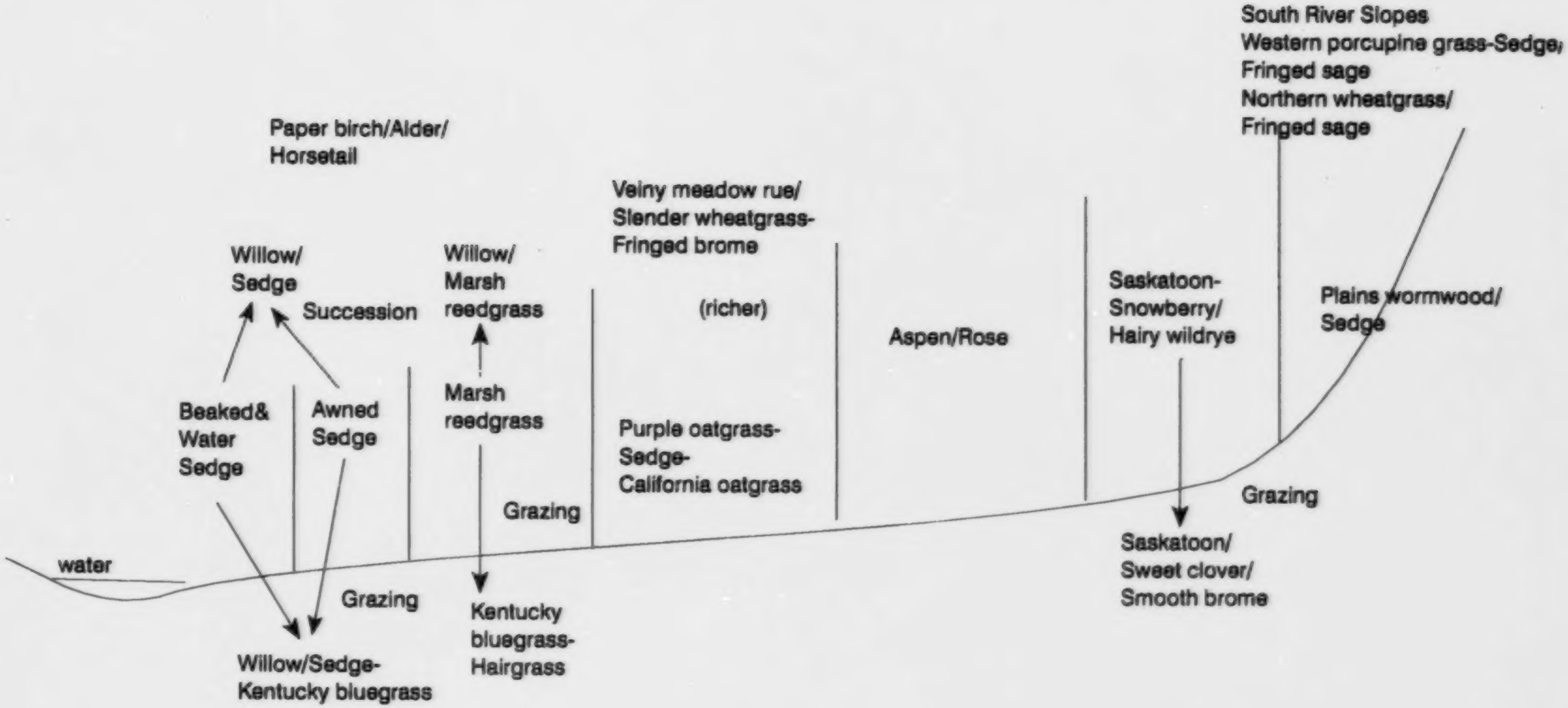
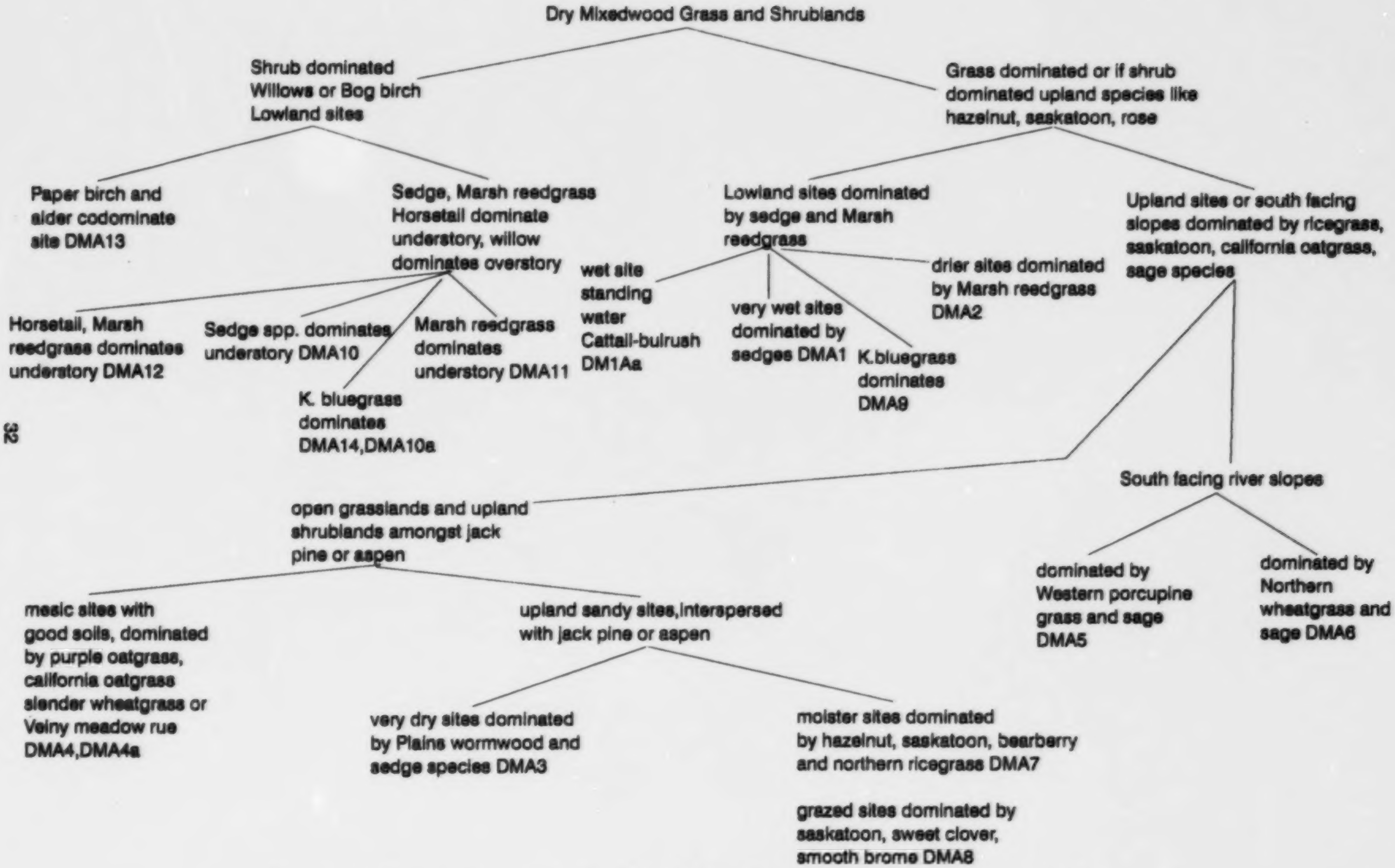

South River Slopes
Western porcupine grass-Sedge/
Fringed sage
Northern wheatgrass/
Fringed sage
Paper birch/Alder/
Horsetail
Veiny meadow rue/
Slender wheatgrass-
Fringed brome
Willow/
Sedge
Succession
Willow/
Marsh
reedgrass
(richer)
Aspen/Rose
Saskatoon-
Snowberry/
Hairy wildrye
Plains wormwood/
Sedge
Beaked&
Water
Sedge
Awned
Sedge
Marsh
reedgrass
Purple oatgrass-
Sedge-
California oatgrass
Grazing
Grazing
water
Grazing
Saskatoon/
Sweet clover/
Smooth brome
Willow/Sedge-
Kentucky bluegrass
Kentucky
bluegrass-
Hairgrass

Figure 1. Ecology of the native grass and shrublands in the landscape of the Dry Mixedwood subregion.

Table 2. Production (kg/ha) and grazing capacity (ha/AUM) for the ecosite phase, grass and shrubland community types for the Dry Mixedwood subregion

Community number	Community type	Total productivity (Kg/ha)	Ecosite	Grazing Capacity (Ha/AUM)
Ecosite phase	**aa1 plains wormwood**	**1263**		**0.7**
DMA3	Plains wormwood/Sedge	1263	(xeric/poor)	0.7
Ecosite phase	**bb1 Western porcupine grass**	**1055**		**1.0**
DMA5	Western porcupine grass-Sedge/Fringed sage	1055	(subxeric/medium)	1.0
Ecosite phase	**bb2 Northern wheatgrass**	**1146**		**1.0**
DMA6	Northern wheatgrass/Fringed sage	1146	(subxeric/medium)	1.0
Ecosite phase	**d4 shrubland**	**1089**		**1.1**
DMA7	Saskatoon-Snowberry/Hairy wildrye	677	(mesic/medium)	1.3
DMA8	Saskatoon/Sweet clover/Smooth brome	1500	(mesic/medium)	0.6
Ecosite phase	**dd1 california oatgrass**	**2504**		**0.4**
DMA4	Purple oatgrass-Sedge-California oatgrass	2508	(mesic/rich)	0.4
DMA4a	Veiny meadow rue/Slender wheatgrass-Fringed brome	2500	(mesic/rich)	0.4
Ecosite phase	**f4 horsetail/Willow**	**1852**		**Non-use**
DMA12	Willow/Horsetail/Marsh reedgrass	1852	(hygric/rich)	Non-use
Ecosite phase	**f5 horsetail Bw**	**536**		**Non-use**
DMA13	Paper birch/Alder/Horsetail	536	(hygric/rich)	Non-use
Ecosite phase	**k2 shrubby rich fen**	**1285**		**0.8**
DMA10	Willow/Sedge	1169	(subhydric/rich)	0.8
DMA10a	Willow/Marsh reedgrass	1400	(subhydric/rich)	0.7

Ecosite phase k2 grazed willow		**2418**		**0.4**
DMA11	Willow/Marsh reedgrass-Kentucky bluegrass	2487	(subhydric/rich)	0.4
DMA14	Willow/Kentucky bluegrass/Dandelion	2350	(subhydric/rich)	0.4
Ecosite phase k3 graminoid rich fen		**2992**		**0.3**
DMA1	Sedge meadow	3746	(subhydric/rich)	0.1
DMA2	Marsh reedgrass meadow	2237	(subhydric/rich)	0.4
Ecosite phase k3 grazed meadow		3064		0.3
DMA9	Kentucky bluegrass-Rough hairgrass	3064	(subhydric/rich)	0.3
Ecosite phase l1 Marsh		4300		Non-use
DMA1a	Bulrush-Cattail	4300	(subhydric/rich)	Non-use


Dry Mixedwood Grass and Shrublands
Shrub dominated Willows or Bog birch Lowland sites
Grass dominated or if shrub dominated upland species like hazelnut, saskatoon, rose
Paper birch and alder codominate site DMA13
Sedge, Marsh reedgrass Horsetail dominate understory, willow dominates overstory
Lowland sites dominated by sedge and Marsh reedgrass
Upland sites or south facing slopes dominated by ricegrass, saskatoon, california oatgrass, sage species
Horsetail, Marsh reedgrass dominates understory DMA12
Sedge spp. dominates understory DMA10
Marsh reedgrass dominates understory DMA11
K. bluegrass dominates DMA14,DMA10a
wet site standing water Cattail-bulrush DM1Aa
very wet sites dominated by sedges DMA1
K.bluegrass dominates DMA9
drier sites dominated by Marsh reedgrass DMA2
South facing river slopes
open grasslands and upland shrublands amongst jack pine or aspen
dominated by Western porcupine grass and sage DMA5
dominated by Northern wheatgrass and sage DMA6
mesic sites with good soils, dominated by purple oatgrass, california oatgrass slender wheatgrass or Veiny meadow rue DMA4,DMA4a
upland sandy sites,interspersed with jack pine or aspen
very dry sites dominated by Plains wormwood and sedge species DMA3
moister sites dominated by hazelnut, saskatoon, bearberry and northern ricegrass DMA7
grazed sites dominated by saskatoon, sweet clover, smooth brome DMA8

Key to native grass and shrublands in the Dry Mixedwood subregion

DMA1. Sedge meadows

(Carex aquatilis, C. rostrata, C. atherodes)

n=7 This wetland community type is found near fresh water. The sedge meadow is a poorly drained community. As one moves to the drier edges marsh reedgrass becomes predominant. Willows will invade into both the sedge and marsh reedgrass dominated meadows. The sedge meadow community is very productive, but the high water table, particulary in the spring when the sedge species are most palatable, restricts livestock movement. One study done in the Yukon found that crude protein on these meadows declined from a high of 10% in May to less than 5% in September (Bailey et al. 1992).

Beaked sedge found in abundance in this community is usually associated with nitrogen rich conditions and moving water (Brierly et al. 1985). Water sedge is often found in abundance in this community type and is associated with calcium rich stagnant water (MacKinnon et al. 1992).

Plant Composition Canopy Cover(%)

Shrubs	Mean	Range	Const.
Willow spp. *(Salix spp.)*	11	0-30	100
Forbs			
Marsh willowherb *(Epilobium palustris)*	1	0-3	14
Dock *(Rumex acetosa)*	1	0-2	14
Skull cap *(Scutellaria galericulata)*	1	0-1	57
Mint (*Mentha arvensis*)	1	0-4	57
Grasses			
Beaked sedge (*Carex rostrata)*	26	0-85	86
Awned sedge (*Carex atherodes*)	20	0-72	86
Water sedge (*Carex aquatilis*)	5	0-16	43
Marsh reedgrass (*Calamagrostis canadensis*)	1	0-11	43

Environmental Variables

Moisture Regime (mean):
Subhydric-Hygric
Nutrient Regime (mean
Permesotrophic

Elevation:
586(579-600) m

Soil Drainage (mean):
Poorly to very poorly

Forage Production (kg/ha)

Grass	3673(1054-5028)
Forb	73(0-80)
Shrub	40(0-120)
Total	3746(1254-5028)

Suggested grazing capacity
0.1 Ha/AUM (Autumn only)

DMA1a. Bulrush-Cattail

(Scirpus acutus-Typha latifolia)

n=1 This wetland community type is found near fresh water. It is associated with standing water. This community is an emergent community found in standing water of ponds and sloughs. As one moves away from the water to the drier edges the sedge meadow community is found. On the drier edges the marsh reedgrass community is found and willow are associated in the transition from the slough margin and the forest.

This community type would be rated as non-use for domestic livestock because of the extremely wet conditions.

PLANT COMPOSITION CANOPY COVER(%)

SHRUBS	MEAN	RANGE	CONST.
WILLOW SPP. *(Salix spp.)*	5	-	100
FORBS			
MARE'S TAIL *(Hippuris vulgaris)*	1	-	100
SKULL CAP *(Scutellaria galericulata)*	1	-	100
MINT (*Mentha arvensis*)	1	-	100
GRASSES			
REED GRASS (*Phragmites australis)*	14	-	100
GREAT BULRUSH (*Scirpus acutus*)	8	-	100
CATTAIL (*Typha latifolia*)	5	-	100
WATER SEDGE (*Carex aquatilis*)	6	-	100
MARSH REEDGRASS (*Calamagrostis canadensis*)	4	-	100

ENVIRONMENTAL VARIABLES

MOISTURE REGIME (MEAN):
SUBHYDRIC-HYGRIC
NUTRIENT REGIME (MEAN
PERMESOTROPHIC

ELEVATION:
606 M

SOIL DRAINAGE (MEAN):
VERY POORLY

FORAGE PRODUCTION (KG/HA)

GRASS	4300
TOTAL	4300

SUGGESTED GRAZING CAPACITY
NON-USE

DMA2. Marsh reedgrass meadow

(Calamagrostis canadensis)

n=2 This community is found on the edges of sedge meadows and moist draws where the water table is lower. The lower water table makes this community accessible for most of the grazing season. Willow will invade onto these sites to form the Willow/Marsh reedgrass community type. Increased grazing pressure on these sites will cause marsh reedgrass to decline and their will be an invasion of Kentucky bluegrass and dandelion. These sites are highly productive for domestic livestock and should be rated as primary range.

PLANT COMPOSITION CANOPY COVER(%)

	MEAN	RANGE	CONST.
SHRUBS			
WILLOW SPP. *(Salix spp.)*	T	0-1	100
PRICKLY ROSE (*Rosa acicularis*)	1	0-2	50
FORBS			
LEAFY-BRACTED ASTER *Aster sibricus)*	2	0-4	50
DOCK , SORREL *(Rumex crispus)*	1	0-1	50
GRASSES			
MARSH REEDGRASS *(Calamagrostis canadensis)*	49	25-71	100
BALTIC RUSH (*Juncus balticus)*	5	0-9	50
KENTUCKY BLUEGRASS (*Poa pratensis*)	3	0-5	50
WATER SEDGE (*Carex aquatilis*)	2	0-3	50
AWNED SEDGE (*Carex atherodes*)	1	0-1	100

ELEVATION:
603(600-606)M

SOIL DRAINAGE (MEAN):
POORLY

FORAGE PRODUCTION(KG/HA)

GRASS	1427(1254-1600)
FORB	812(450-1174)
TOTAL	2237(2050-2424)

SUGGESTED GRAZING CAPACITY
0.4 HA/AUM

ENVIRONMENTAL VARIABLES

MOISTURE REGIME (MEAN):
SUBHYGRIC-HYGRIC

NUTRIENT REGIME (MEAN):
PERMESOTROPHIC

DMA3. Plains wormwood/Sedge

(Artemisia campestris/Carex spp.)

n=2 This community type is found on coarse textured, sandy soils. It is generally found on hilltops and south-facing slopes in openings among Jack pine on the uplands and black spruce in the lowlands. This community type was also described on similar site conditions in the Central Mixedwood subregion. This community would be considered either secondary or non-use range for domestic livestock because of the low forage production and fragile nature of the community.

PLANT COMPOSITION CANOPY COVER(%)

	MEAN	RANGE	CONST.
FORBS			
SCOURING RUSH *(Equisetum hyemale)*	8	0-16	50
PLAINS WORMWOOD *(Artemisia campestris)*	12	8-15	100
LOW GOLDENROD *(Solidago missouriensis)*	1	0-2	50
AMERICAN VETCH *(Vicia americana)*	1	0-2	50
YELLOW BEARDSTONGUE (*Penstemon confertus*)	1	0-1	50
GRASSES			
KENTUCKY BLUEGRASS *(Poa pratensis)*	5	0-9	50
CREEPING RED FESCUE *(Festuca rubra)*	2	0-4	50
SEDGE (*Carex spp*)	18	1-34	100
SHEEP FESCUE (*Festuca saximontana*)	2	1-3	100

SLOPE(RANGE):
16(10-22)
ASPECT:
SOUTH TO WESTERLY

FORAGE PRODUCTION (KG/HA)

GRASS	652
FORB	525
SHRUB	86
TOTAL	1263

SUGGESTED GRAZING CAPACITY
0.7 HA/AUM

ENVIRONMENTAL VARIABLES

MOISTURE REGIME (MEAN):
XERIC-SUBXERIC

NUTRIENT REGIME (MEAN):
SUBMESOTROPHIC
ELEVATION:
467(325-606) M
SOIL DRAINAGE:
RAPIDLY TO WELL

DMA4. Purple oatgrass-Sedge-California oatgrass

(Schizachne purpurascens-Carex spp.-Danthonia californica)

n=4 This community appears to be characteristic of dry grassy meadows on dark colored Solonetzic soils and gentle to level areas throughout the Dry Mixedwood subregion. Wilkinson and Johnson (1982), found there was a close correlation between large tracts of prairie vegetation and the distribution of solonetzic soils in the Peace River district of Alberta. They specifically described Western porcupine grass-Sedge/Fringed sage community on steep south -facing slopes and a Sedge-California oatgrass-Western porcupine grass on more gentle slopes. They felt the solonetzic soils supported grasslands and not forests because of their unfavourable ratios of Ca and Na, hard, columnar B-horizon, and relatively impermeable clay pan close to the surface. This community type appears to more similar to their Sedge-California oatgrass-Western porcupine grass community type. It is likely the heavy grazing pressure of the described sites favours the growth of purple oatgrass over Western porcupine grass on these sites.

This community type would be rated as primary range. Indeed many of the sites described were old homestead sites.

PLANT COMPOSITION CANOPY COVER(%)

	MEAN	RANGE	CONST.
SHRUBS			
PRICKLY ROSE *(Rosa acicularis)*	3	0-10	20
SNOWBERRY (*Symphoricarpos occidentalis*)	12	0-36	75
SASKATOON (*Amelanchier alnifolia*)	1	0-3	50
FORBS			
STRAWBERRY *(Fragaria virginiana)*	14	1-29	100
MEADOW RUE *(Thalictrum venulosum)*	4	1-8	
100DANDELION *(Taraxacum officinale)*	8	0-20	100
YARROW *(Achllea millefolium)*	6	0-12	75
AMERICAN VETCH (*Vicia americana)*	5	0-9	75
GRASSES			
PURPLE OATGRASS *(Schizachne purpurascens)*	25	12-34	100
SLENDER WHEATGRASS *(Agropyron trachycaulum)*	12	6-18	100
KENTUCKY BLUEGRASS (*Poa pratensis*)	12	1-40	100
PRAIRIE SEDGE (*Carex prairea*)	9	0-15	75
JUNEGRASS (*Koeleria macrantha*)	4	0-6	75
CALIFORNIA OATGRASS (*Danthonia californica*)	9	0-28	50

ENVIRONMENTAL VARIABLES

MOISTURE REGIME (MEAN):
MESIC
NUTRIENT REGIME (MEAN):
MESOTROPHIC
ELEVATION:
576-606(584) M
SOIL DRAINAGE (MEAN):
WELL
SLOPE % (RANGE):
2(0-5)
ASPECT:
SOUTH TO WEST

FORAGE PRODUCTION (KG/HA)

GRASS	1463 (626-2578)
FORB	818(500-1192)
SHRUB	227(0-606)
TOTAL	2508(1600-3316)

SUGGESTED GRAZING CAPACITY
0.4 HA/AUM

DMA4a. Veiny meadow rue/Slender wheatgrass-Fringed brome

(Thalictrum venulosum/Agropyron trachycaulum-Bromus ciliatus)

n=2 This community appears to be characteristic of dry grassy meadows on dark colored Chernozemic soils and gentle to level areas throughout the Dry Mixedwood subregion. This community type is likely associated with the large tracts of prairie vegetation described by Wilkinson and Johnson (1982) in the Peace River district of Alberta. They specifically described Western porcupine grass-Sedge/Fringed sage community on steep south - facing slopes and a Sedge-California oatgrass-Western porcupine grass on more gentle slopes. They felt these grasslands were associated with the distribution of solonetzic soils in the Peace River area. This community type appears to be richer than the Sedge-California oatgrass-Western porcupine grass community described by Wilkinson and Johnson. The soils on this community are described as Chernozemic and the parent material is fluvial in origin.

These sites are very productive and should be rated as primary range.

PLANT COMPOSITION CANOPY COVER(%)

	MEAN	RANGE	CONST.
TREES			
WHITE SPRUCE *(Picea glauca)*	1	0-1	50
FORBS			
STRAWBERRY *(Fragaria virginiana)*	1	0-1	50
MEADOW RUE *(Thalictrum venulosum)*	23	15-30	100
FIREWEED *(Epilobium angustifolum)*	2	1-2	100
YARROW *(Achllea millefolium)*	1	0-2	50
TALL LUNGWORT (*Mertensia paniculata)*	9	2-15	100
GRASSES			
FRINGED BROME *(Bromus cilatus)*	15	10-20	100
SLENDER WHEATGRASS *(Agropyron trachycaulum)*	18	15-20	100
WHITE SCALED SEDGE (*Carex xerantica*)	10	9-10	100
MARSH REEDGRASS (*Calamagrostis canadensis*)	1	0-2	50

ENVIRONMENTAL VARIABLES

MOISTURE REGIME (MEAN):
MESIC
NUTRIENT REGIME (MEAN):
MESOTROPHIC-PERMESOTROPHIC
ELEVATION:
472-587(530) M
SOIL DRAINAGE (MEAN):
MODERATELY WELL
SLOPE:
LEVEL

FORAGE PRODUCTION (KG/HA)

TOTAL 2500 KG/HA *ESTIMATE

SUGGESTED GRAZING CAPACITY
0.4 HA/AUM

DMA5. Western porcupine grass-Sedge/Fringed sage

(Stipa curtiseta-Carex spp./Artemisia frigida)

n=7 This community type is found on steep, south-facing slopes along the banks of the Peace, Smoky and Wapiti rivers throughout the Dry Mixedwood subregion. Wilkinson and Johnson (1982), found there was a close correlation between large tracts of prairie vegetation and the distribution of solonetzic soils in the Peace River district of Alberta. They specifically described Western porcupine grass-Sedge/Fringed sage community on steep south -facing slopes and a Sedge-California oatgrass-Western porcupine grass on more gentle slopes. They felt the solonetzic soils supported grasslands and not forests because of their unfavourable ratios of Ca and Na, hard, columnar B-horizon, and relatively impermeable clay pan close to the surface. Adams (1981), found this community type as being a major source of spring forage for livestock in the Peace River area. He found that with increased grazing pressure sedge, junegrass, northern and western wheatgrass would increase as western porcupine grass declines. Often this community type is on steep enough slopes to be considered non-use for domestic livestock.

PLANT COMPOSITION CANOPY COVER(%)

	MEAN	RANGE	CONST.
SHRUBS			
FRINGED SAGE			
(*Artemisia frigida*)	8	0-30	86
SASKATOON			
(*Amelanchier alnifolia*)	1	0-2	71
SNOWBERRY			
(*Symphoricarpos occidentalis*)	2	0-8	57
FORBS			
LITTLE LEAVED EVERLASTING			
(Antennaria parviflora)	1	0-3	43
BASTARD'S TOADFLAX			
(*Commandra umbellata*)	1	0-2	71
PRAIRIE CROCUS			
(*Anemone patens*)	2	0-12	43
PRICKLY PEAR CACTUS			
(*Opuntia fragilis*)	1	0-2	29
GRASSES			
WESTERN PORCUPINE GRASS			
(*Stipa curtiseta*)	15	5-46	100
BLUNT SEDGE			
(*Carex obtusata*)	15	0-33	75
GREEN NEEDLEGRASS			
(*Stipa viridula)*	5	0-17	43
JUNEGRASS			
(*Koeleria macrantha*)	6	0-12	86
WESTERN WHEATGRASS			
(*Agropyron smithii*)	1	0-5	43
KENTUCKY BLUEGRASS			
(*Poa pratensis*)	1	0-8	14
NORTHERN WHEATGRASS			
(*Agropyron dasystachyum*)	2	0-6	29

ENVIRONMENTAL VARIABLES

MOISTURE REGIME (MEAN):
SUBXERIC-SUBMESIC
NUTRIENT REGIME (MEAN):
SUBMESOTROPHIC-MESOTROPHIC
ELEVATION:
442-606(503) M
SOIL DRAINAGE (MEAN):
VERY RAPIDLY
SLOPE:
35-82(59)%
ASPECT:
SOUTH AND WEST

FORAGE PRODUCTION(KG/HA)

GRASS	989(700-945)
FORB	254(0-531)
SHRUB	5(0-20)
TOTAL	1055(752-1476)

SUGGESTED GRAZING CAPACITY
1.0 HA/AUM

DMA6. Northern wheatgrass-Junegrass/Fringed sage

(Agropyron dasystachyum-Koeleria macrantha/Artemisia frigida)

n=13 This community type is found on steep, south-facing slopes along the banks of the Peace, Smoky and Wapiti rivers throughout the Dry Mixedwood subregion. Adams (1981), felt this community type would form when the Western porcupine grass community was heavily to moderately grazed, but a number of plots were described in an area that had little grazing pressure. This community was located on a much steeper slope (76% vs 35%) than the previously described Western porcupine grass community type. It is likely that the drier site conditions and shallower and poorer nutrient soils favour the growth of northern wheatgrass over Western porcupine grass. This community type is located on a steep enough slope to be considered non-use for domestic livestock.

PLANT COMPOSITION CANOPY COVER(%)

	MEAN	RANGE	CONST.
SHRUBS			
FRINGED SAGE (*Artemisia frigida*)	6	0-20	80
SASKATOON (*Amelanchier alnifolia*)	6	0-15	95
ROSE (*Rosa acicularis*)	3	0-15	62
SNOWBERRY (*Symphoricarpos occidentalis*)	3	0-10	69
FORBS			
WILD BLUE FLAX *(Linum lewesii)*	1	0-4	23
LINDLEY'S ASTER (*Aster ciliolatus*)	1	0-3	46
SHOWY LOCOWEED (*Oxytropis splendens*)	1	0-2	39
DANDELION (*Taraxacum offincinale*)	1	0-2	62
GRASSES			
NORTHERN WHEAT GRASS *(Agropyron dasystachyum)*	10	0-17	75
SEDGE SPP. (*Carex spp.*)	3	0-7	63
RICHARDSON NEEDLEGRASS (*Stipa richardsonii)*	1	0-4	15
JUNEGRASS (*Koeleria macrantha*)	5	0-20	77
SLENDER WHEATGRASS (*Agropyron trachycaulum)*	3	0-30	46

ENVIRONMENTAL VARIABLES

MOISTURE REGIME (MEAN):
XERIC-SUBXERIC
NUTRIENT REGIME (MEAN):
SUBMESOTROPHIC
ELEVATION:
345-606 M
SOIL DRAINAGE (MEAN):
VERY RAPIDLY
SLOPE:
68(10-90%)
ASPECT:
SOUTH AND WEST

FORAGE PRODUCTION (KG/HA)

GRASS	600(500-798
FORB	183(50-400)
SHRUB	309(220-450)
TOTAL	1146(1000-1350)

SUGGESTED GRAZING CAPACITY
1.0 HA/AUM

DMA7. Saskatoon-Snowberry/Hairy wildrye

(Amelanchier alnifolia -Symphoricarpos occidentalis/Elymus innovatus)

n=9 This community represents small shrubby openings within aspen forests on southwest facing slopes and level areas. These sites have well developed Luvisolic soils with colluvial, glacialfluvial and glacial lacustrine parent materials. It is likely these shrubby openings are drier than the surrounding forest, which favours the growth of shrubs over trees. Forage productivity on these sites is only moderate averaging only 677 kg/ha. These sites are also heavily utilized by wildlife. As a result caution should be used when managing these sites for domestic livestock grazing in order to prevent overutilization.

PLANT COMPOSITION CANOPY COVER(%)

	MEAN	RANGE	CONST.
SHRUBS			
BLUEBERRY *(Vaccinium myrtilloides)*	1	0-5	22
CHOKECHERRY (*Prunus virginiana*)	12	0-45	78
SNOWBERRY (*Symphoricarpos occidentalis*)	10	1-30	100
SASKATOON (*Amelanchier alnifolia*)	15	6-65	100
PRICKLY ROSE (*Rosa acicularis)*	13	5-27	100
FORBS			
BEARBERRY *(Arctostaphylos uva-ursi)*	5	0-36	22
STRAWBERRY *(Fragaria virginiana)*	1	0-7	67
YELLOW PEAVINE *(Lathyrus ochroleucus)*	1	0-2	78
LINDLEY'S ASTER *(Aster ciliolatus)*	2	0-5	67
GRASSES			
NORTHERN RICEGRASS (*Oryzopsis pungens*)	2	0-12	22
SLENDER WHEATGRASS (*Agropyron trachycaulum*)	3	0-5	56
BLUNT SEDGE (*Carex obtusata*)	1	0-9	22
HAIRY WILDRYE (*Elymus innovatus*)	2	0-10	78
KENTUCKY BLUEGRASS (*Poa pratensis*)	1	0-7	11

ENVIRONMENTAL VARIABLES

MOISTURE REGIME (MEAN):
MESIC-SUBMESIC
NUTRIENT REGIME (MEAN):
SUBMESOTROPHIC
ELEVATION:
343-606(460) M
SOIL DRAINAGE (MEAN):
VERY RAPIDLY TO WELL
SLOPE (RANGE):
17(0-72)
ASPECT:
VARIABLE

FORAGE PRODUCTION(KG/HA)

GRASS	344(124-564)
FORB	189(82-296)
SHRUB	144(104-184)
TOTAL	677(524-830)

SUGGESTED GRAZING CAPACITY
1.3 Ha/AUM

DMA8. Saskatoon/Sweet clover/Smooth brome

(Amelanchier alnifolia/Meliolatus officinalis/Bromus inermis)

n=2 This community type appears to represent the Saskatoon-Snowberry/Hairy wildrye community type which has undergone disturbance by livestock. Sweet clover and smooth brome are both weedy species and occur essentially where roads and settlement occurs. Sweet clover is well adapted to growing on roadsides and in waste places. Unfortunately, forage production was not done for this community type, but sweet clover and brome can be very productive if grazed before they become overmature.

PLANT COMPOSITION CANOPY COVER(%)

	MEAN	RANGE	CONST.
TREES			
ASPEN *(Populus tremuloides)*	5	4-5	100
SHRUBS			
SNOWBERRY *(Symphoricarpos occidentalis)*	20	14-25	100
PRICKLY ROSE *(Rosa acicularis)*	37	11-62	100
SASKATOON (*Amelanchier alnifolia*)	7	1-13	100
FORBS			
STRAWBERRY *(Fragaria virginiana)*	1	1-2	100
CREAM COLORED VETCHLING(PEAVINE) *(Lathyrus ochroleucus)*	2	1-3	100
NORTHERN BEDSTRAW *(Galium boreale)*	5	1-8	100
SWEET CLOVER (*Meliolatus officinalis*)	8	0-16	50
GRASSES			
SMOOTH BROME *(Bromus inermis)*	7	0-13	50
ROSS'S SEDGE *(Carex rossii)*	6	4-7	100
TIMOTHY (*Phleum pratense*)	5	0-6	50
KENTUCKY BLUEGRASS (*Poa pratensis*)	1	0-1	50

ENVIRONMENTAL VARIABLES

MOISTURE REGIME (MEAN):
SUBMESIC-MESIC

NUTRIENT REGIME (MEAN):
SUBMESOTROPHIC-MESOTROPHIC

ELEVATION:
455 M

SOIL DRAINAGE (MEAN):
WELL TO MODERATELY WELL

SLOPE (RANGE):
4(3-5)

ASPECT:
SOUTHERLY

FORAGE PRODUCTION(KG/HA)

TOTAL	1500*ESTIMATE

SUGGESTED GRAZING CAPACITY
0.6 HA/AUM

DMA9. Kentucky bluegrass-Hairgrass

(Poa pratensis-Agrostis scabra)

n=1 This community type represents a Marsh reedgrass meadow that has undergone heavy prolonged grazing pressure and is now dominated by Kentucky bluegrass, rough hairgrass and dandelion. This community is a fairly productive community type and the species are generally palatable to livestock when grazed in the vegetative state, but the extremely heavy grazing pressure which is needed to displace the native grass species indicates that there are livestock distribution problems that should be addressed.

PLANT COMPOSITION CANOPY COVER(%)

	MEAN	RANGE	CONST.
FORBS			
DANDELION *(Taraxacum officinale)*	60	-	100
YELLOW PEAVINE *(Lathyrus ochroleucus)*	12	-	100
WILD STRAWBERRY *(Fragaria virginiana)*	14	-	100
YARROW *(Achillea millefolium)*	11	-	100
HORSETAIL (*Equisetum arvense*)	7	-	100
GRASSES			
KENTUCKY BLUEGRASS *(Poa pratensis)*	18	-	100
ROUGH HAIRGRASS *(Agrostis scabra)*	17	-	100
SLENDER WHEATGRASS *(Agropyron trachycaulum)*	5	-	100
FRINGED BROME (*Bromus ciliatus*)	4	-	100

ENVIRONMENTAL VARIABLES

MOISTURE REGIME (MEAN):
HYGRIC-SUBHYGRIC

NUTRIENT REGIME (MEAN):
PERMESOTROPHIC

ELEVATION:
697 M

SOIL DRAINAGE (MEAN):
IMPERFECTLY

FORAGE PRODUCTION(KG/HA)

GRASS	1382
FORB	1682
TOTAL	3064

SUGGESTED GRAZING CAPACITY
0.3 HA /AUM

DMA10. Willow/Sedge

(*Salix spp./Carex spp.)*

n=11 This community type is found along the edges of sedge meadows and in moist depressions. Willow becomes established at the edges of the sedge meadows due to the shorter duration of standing water. Increased flooding and prolonged waterlogging may result in the disappearance of willow and a transition to a water sedge meadow.

These sites are fairly productive but difficult to graze due to the moist ground conditions and heavy shrub cover which reduces access and mobility within the area.

PLANT COMPOSITION CANOPY COVER(%)

	MEAN	RANGE	CONST.
SHRUBS			
WILLOW SPP.			
(Salix spp.)	23	5-65	100
FORBS			
MINT			
(Mentha arvensis)	1	0-5	55
GREEN SOREL			
(Rumex acetosa)	1	0-1	27
STRAWBERRY			
(*Fragaria virginiana)*	2	0-18	36
DANDELION			
(*Taraxacum officinale)*	3	0-22	36
GRASSES			
AWNED SEDGE			
(Carex atherodes)	7	0-30	82
MARSH REEDGRASS			
(Calamagrostis canadensis)	4	0-11	
82BEAKED SEDGE			
(Carex rostrata)	20	1-39	100
WATER SEDGE			
(*Carex aquatilis*)	4	0-25	46

ENVIRONMENTAL VARIABLES

MOISTURE REGIME (MEAN):
SUBHYDRIC

NUTRIENT REGIME (MEAN):
PERMESOTROPHIC

ELEVATION:
576-606(588) M

SOIL DRAINAGE (MEAN):
POORLY

FORAGE PRODUCTION(KG/HA)

GRASS	673(344-1002)
FORB	470(52-888)
SHRUB	11(0-22)
TOTAL	1169(448-1890)

SUGGESTED GRAZING CAPACITY
0.8 HA /AUM

DMA10a. Willow/Marsh reedgrass

(Salix spp./Calamagrostis canadensis)

n=3 This community type is found along the edges of sedge and marsh reedgrass meadows and in moist depressions. Willow becomes established at the edges of these meadows due to the shorter duration of standing water. Increased flooding and prolonged waterlogging may result in the disappearance of willow and a transition to a marsh reedgrass and water sedge meadow.

These sites are fairly productive but difficult to graze due to the moist ground conditions and heavy shrub cover which reduces access and mobility within the area.

PLANT COMPOSITION CANOPY COVER(%)

	MEAN	RANGE	CONST.
SHRUBS			
WILLOW SPP.			
(Salix spp.)	37	10-70	100
FORBS			
SKULLCAP			
(Scutellaria galericulata)	5	0-10	66
MINT			
(Mentha arvensis)	2	0-4	66
STRAWBERRY			
(Fragaria virginiana)	1	0-1	33
DANDELION			
(Taraxacum officinale)	2	1-3	66
GRASSES			
AWNED SEDGE			
(Carex atherodes)	2	1-4	100
MARSH REEDGRASS			
(Calamagrostis canadensis)	16	10-27	100
BEAKED SEDGE			
(Carex rostrata)	4	1-5	100
WATER SEDGE			
(Carex aquatilis)	2	0-6	33

ENVIRONMENTAL VARIABLES

MOISTURE REGIME (MEAN):
SUBHYDRIC

NUTRIENT REGIME (MEAN):
PERMESOTROPHIC

ELEVATION:
606 M

SOIL DRAINAGE (MEAN):
POORLY

FORAGE PRODUCTION(KG/HA)

GRASS	1325(900-1750)
FORB	75(50-200)
TOTAL	1400(950-1850)

SUGGESTED GRAZING CAPACITY
0.7 HA /AUM

DMA11. Willow/Marsh reedgrass-Kentucky bluegrass

(Salix spp./Calamagrostis canadensis-Poa pratensis)

n=6 This community type is very similar to the Willow/ Marsh reedgrass community type, but has been heavily grazed favouring the growth of Kentucky bluegrass and dandelion. Continued heavy grazing pressure will eventually lead to a understory community that is similar to the Willow/ Kentucky bluegrass/dandelion dominated community type.

PLANT COMPOSITION CANOPY COVER(%)

	MEAN	RANGE	CONST.
SHRUBS			
WILLOW SPP. (*Salix spp.*)	17	10-35	100
SNOWBERRY (*Symphoricarpos occidentalis*)	1	0-1	17
FORBS			
MINT (*Mentha arvensis*)	2	0-6	83
DANDELION (*Taraxacum offincinale*)	15	1-41	100
BUSHY CINQUEFOIL (*Potentilla paradoxa*)	1	0-2	67
GRASSES			
MARSH REEDGRASS (*Calamagrostis canadensis*)	15	3-42	100
KENTUCKY BLUEGRASS (*Poa pratensis*)	17	4-32	100
BALTIC RUSH (*Juncus balticus*)	2	0-9	17
FOXTAIL BARLEY (*Hordeum jubatum*)	1	0-3	83

ENVIRONMENTAL VARIABLES

MOISTURE REGIME (MEAN):
SUBHYGRIC

NUTRIENT REGIME (MEAN):
PERMESOTROPHIC

ELEVATION:
600-606 M

SOIL DRAINAGE (MEAN):
IMPERFECTLY

FORAGE PRODUCTION(KG/HA)

GRASS	2487(1800-1922)
FORB	1129(176-2450)
SHRUB	5(0-28)
TOTAL	2487(1800-4250)

SUGGESTED GRAZING CAPACITY
0.4 HA /AUM

DMA12. Willow/Horsetail/Marsh reedgrass

(Salix spp./Equisetum arvensis/Calamagrostis canadensis)

n=1 This community type appears to be transitional between the horsetail (hygric/rich) and shrubby rich fen (subhydric/rich) ecosites described by Beckingham and Archibald (1996). It has plant species characteristic of both ecosites. This community type was also described in an area that had been extensively utilized by livestock. It is possible that the heavy grazing pressure favoured the growth of horsetail.

This community type is only moderately productive. Horsetail the principal forage species is generally unpalatable to domestic livestock and can be poisonous to livestock in large amounts (Lodge et al. 1968). Consequently, this community type should be rated as secondary or non-use range.

PLANT COMPOSITION CANOPY COVER(%)

	MEAN	RANGE	CONST.
SHRUBS			
WILLOW SPP. *(Salix spp.)*	60	-	100
BRACTED HONEYSUCKLE *(Lonicera involcrata)*	1	-	100
PRICKLY ROSE *(Rosa acicularis)*	10	-	100
FORBS			
STRAWBERRY *(Fragaria virginiana)*	5	-	100
LINDLEY'S ASTER *(Aster ciliolatus)*	9	-	100
COMMON HORSETAIL *(Equisetum arvensis)*	18	-	100
LARGE LEAVED YELLOW AVENS *(Geum macrophyllum)*	3	-	100
DEWBERRY *(Rubus pubescens)*	5	-	100
GRASSES			
MARSH REEDGRASS *(Calamagrostis canadensis)*	22	-	100
HAIR-LIKE SEDGE *(Carex capillaris)*	1	-	100

ENVIRONMENTAL VARIABLES

MOISTURE REGIME (MEAN):
SUBHYGRIC

NUTRIENT REGIME (MEAN):
PERMESOTROPHIC

ELEVATION:
667 M

SOIL DRAINAGE (MEAN):
MODERATELY WELL

FORAGE PRODUCTION(KG/HA)

GRASS	580
FORB	1272
TOTAL	1852

SUGGESTED GRAZING CAPACITY
0.5 HA /AUM
RECOMMENDED GRAZING CAPACITY
NON-USE

DMA13. Paper birch-Alder/Horsetail

(Betula papyrifera-Alnus tenuifolia/Equisetum arvensis)

n=1 This community represents a lowland site surrounding open water. The presence of larch and black spruce indicate the succession to a black spruce dominated community type. The high cover of alder indicates a relatively rich nutrient regime, but succession to black spruce will cause a leaching of nutrients as the soil begins to acidify. The forage productivity of this community is poor and many of the plant species are unpalatable. Consequently, this community type would be considered non-use for domestic livestock.

PLANT COMPOSITION CANOPY COVER(%)

	MEAN	RANGE	CONST.
TREES			
PAPER BIRCH			
(*Betula papyrifera*)	25	-	100
LARCH			
(*Larix laricina*)	5	-	100
BLACK SPRUCE			
(*Picea mariana*)	3	-	100
SHRUBS			
WILLOW SPP.			
(Salix spp.)	3	-	100
RIVER ALDER			
(*Alnus tenuifolia*)	45	-	100
BRACTED HONEYSUCKLE			
(*Lonicera involcrata*)	8	-	100
FORBS			
DEWBERRY			
(Rubus pubescens)	6	-	100
BISHOP'S CAP			
(Mitella nuda)	5	-	100
HORSETAIL			
(Equisetum arvensis)	28	-	100
TWINFLOWER			
(Linnaea borealis)	3	-	100
GRASSES			
SEDGE			
(Carex spp.)	3	-	100
MARSH REEDGRASS			
(*Calamagrostis canadensis*)	9	-	100

ENVIRONMENTAL VARIABLES

MOISTURE REGIME (MEAN):
HYGRIC

NUTRIENT REGIME (MEAN):
PERMESOTROPHIC

ELEVATION:
606 M

SOIL DRAINAGE (MEAN):
IMPERFECTLY

FORAGE PRODUCTION(KG/HA)

GRASS	102
FORB	330
SHRUB	104
TOTAL	536

SUGGESTED GRAZING CAPACITY
3.4 HA/AUM
RECOMMENDED GRAZING CAPACITY
NON-USE

DMA14. Willow/Kentucky bluegrass/Dandelion

(Salix spp./Poa pratensis/Taraxacum officinale)

n=2 This community type is very similar to the Willow/ Marsh reedgrass community type, but has been heavily grazed favouring the growth of Kentucky bluegrass and dandelion. Continued heavy grazing pressure eventually leads to a understory community that is dominated by Kentucky bluegrass and dandelion

PLANT COMPOSITION CANOPY COVER(%)

	MEAN	RANGE	CONST.
SHRUBS			
WILLOW SPP. (*Salix spp.)*	6	1-10	100
FORBS			
MINT *(Mentha arvensis)*	2	0-3	100
DANDELION *(Taraxacum offincinale)*	41	34-48	100
PLANTAIN *(Plantago major)*	3	1-5	100
GRASSES			
MARSH REEDGRASS *(Calamagrostis canadensis)*	1	1-2	100
KENTUCKY BLUEGRASS *(Poa pratensis)*	14	1-2	100
FOWL BLUEGRASS *(Poa palustris)*	2	1-2	100
FOXTAIL BARLEY (*Hordeum jubatum*)	1	1-2	100

ENVIRONMENTAL VARIABLES

MOISTURE REGIME (MEAN):
SUBHYGRIC

NUTRIENT REGIME (MEAN):
PERMESOTROPHIC

ELEVATION:
600-606 M

SOIL DRAINAGE (MEAN):
IMPERFECTLY

FORAGE PRODUCTION(KG/HA)

GRASS	1100(700-1500)
FORB	1250(750-1750
TOTAL	2350(2250-2450)

SUGGESTED GRAZING CAPACITY
0.4 HA/AUM

DRY MIXEDWOOD SUBREGION

TAME FORAGE COMMUNITIES

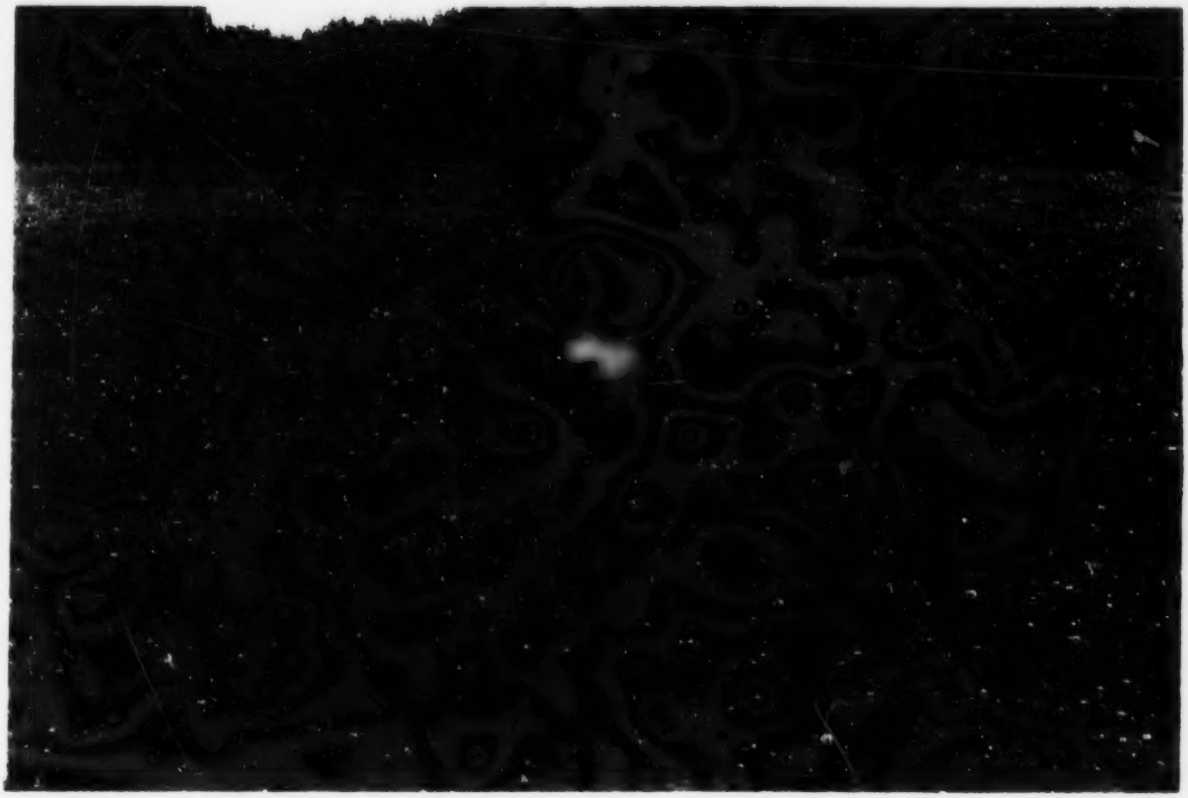


Photo 3. Typical Range improvement clearing in the Dry Mixedwood subregion

DM - TAME FORAGE COMMUNITIES

(Cleared areas that have been broken and seeded to tame forage)

Throughout the Dry mixedwood subregion there are sites that have been deforested, broken, and seeded to tame forage. Usually these areas are mesic and moderately well to well drained with good nutrient levels. Because most of these tame forage stands are established on similar sites, the most influential factors affecting plant species composition are stand establishment and grazing regime.

Stand establishment is important because it determines what the initial plant species composition is going to be. Seed bed preparation and the type of seed sown are the two most important factors influencing stand establishment. Seed bed preparation is important because it helps to determine how well the sown seed germinates and establishes. If the seed bed is not well prepared the tame forage stand may establish poorly and native species can become a dominant component of the plant community. If the seed bed is well prepared, the community type that establishes will depend on the type of seed sown. If a mixture of Creeping Red Fescue, Timothy, and Alsike Clover is sown into the area a Creeping Red Fescue/ Alsike Clover community type will become established. Whereas, if a mixture of Smooth Brome Grass, Timothy, Creeping Red Fescue, and Red Clover is sown, a Smooth Brome/ Red Clover community type will become established.

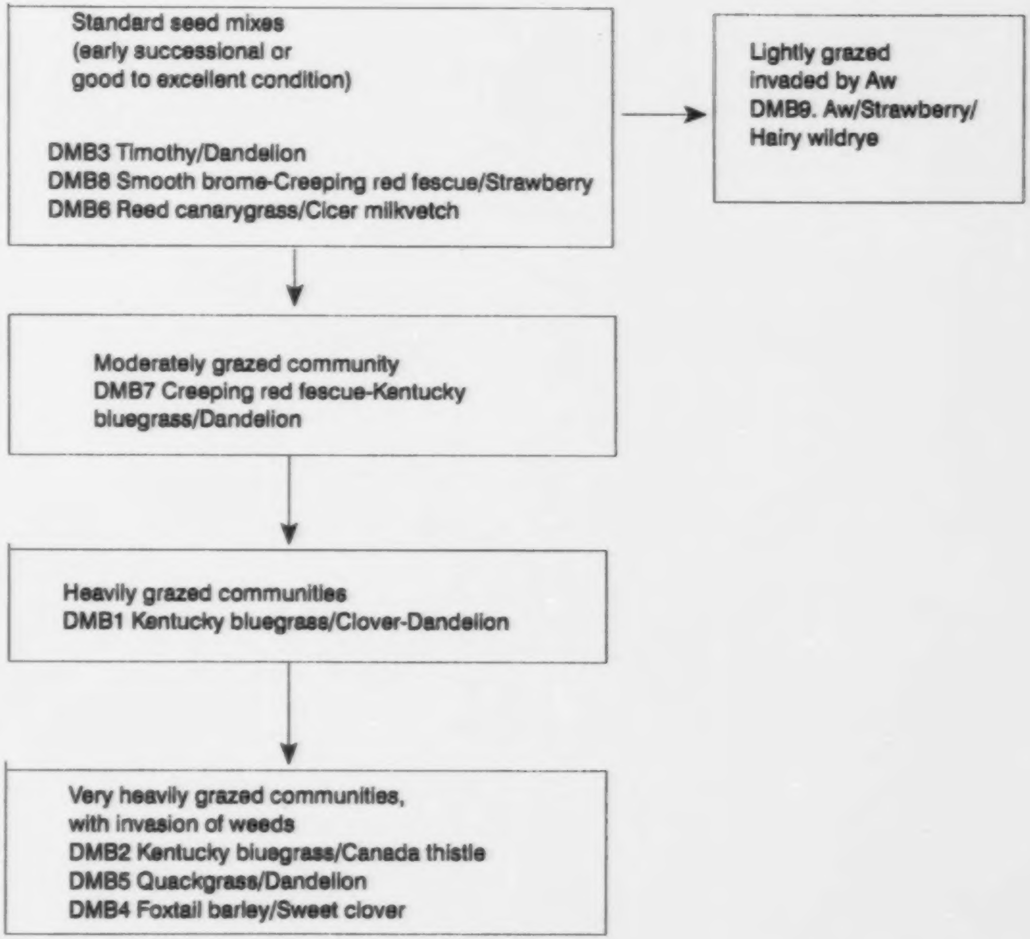
After the stand is established, the grazing regime applied to the stand will determine the plant species composition. Generally, a light to moderate amount of grazing allows the stand to maintain itself while sustained heavy grazing causes the stand to degrade. Damage to a stand due to over grazing occurs more readily while the stand is establishing than it does when the stand is established. This is because the forage plants in an establishing stand have not had time to develop energy reserves in their roots, and are therefore, more susceptible to grazing induced damage.

Well distributed light to moderate grazing will normally maintain a forage stand similar to what was seeded on the site. These stands are generally the most productive and provide the best grazing opportunities for livestock. They are normally considered to be in good to excellent range condition. Non use or very light grazing often results in the stand becoming dominated by the forage species that is most competitive under an ungrazed situation. Plant community changes which occur under heavy grazing are dependent on the grazing history (level of use, season of use and duration of the grazing regime). Overgrazed community types develop over a long period of repeated overgrazing. If weedy species such as Tall Buttercup, become established on overgrazed sites, they can quickly become a dominant species.

Table 3. Tame forage communities of the Dry Mixedwood subregion

Community number	Community type	Prod. (kg/ha)	Ecosite	Grazing capacity (ha/AUM)
		Total		
DMB1	Kentucky bluegrass/Clover-Dandelion	2120	mesic/medium	0.5
DMB2	Kentucky bluegrass/Canada thistle	2000	subhygric/rich	0.6
DMB3	Timothy/Dandelion	4458	mesic/medium	0.2
DMB4	Foxtail barley/Sweet clover	1500	mesic/medium	Non-use
DMB5	Quackgrass/Dandelion	2650	mesic/medium	0.3
DMB6	Reed canarygrass/Cicer milkvetch	2995	subhygric/rich	0.3
DMB7	Creeping red fescue-Kentucky bluegrass/Dandelion	2120	mesic/medium	0.5
DMB8	Smooth brome-Creeping red fescue/Strawberry	3310	mesic/medium	0.3
DMB9	Aw/Strawberry/Hairy wildrye	3036	mesic/medium	0.3

Tame grass plant communities


Standard seed mixes
(early successional or
good to excellent condition)
DMB3 Timothy/Dandelion
DMB8 Smooth brome-Creeping red fescue/Strawberry
DMB6 Reed canarygrass/Cicer milkvetch
Lightly grazed
invaded by Aw
DMB9. Aw/Strawberry/
Hairy wildrye
Moderately grazed community
DMB7 Creeping red fescue-Kentucky
bluegrass/Dandelion
Heavily grazed communities
DMB1 Kentucky bluegrass/Clover-Dandelion
Very heavily grazed communities,
with invasion of weeds
DMB2 Kentucky bluegrass/Canada thistle
DMB5 Quackgrass/Dandelion
DMB4 Foxtail barley/Sweet clover

Key to tame forage communities in the Dry Mixedwood subregion

DMB1. Kentucky bluegrass/Clover-Dandelion

(Poa pratensis/ Trifolium spp.-Taraxacum officinale)

n=12 This community type has had a history of being grazed heavily throughout the growing season. Heavy grazing throughout the growing season, allows kentucky bluegrass, clover, and dandelion to out-compete all of the other vegetation. This community occurs on tame pastures or native rangeland that has been over grazed. It is considered to be in poor condition because forage production and nutritional value have been degraded

PLANT COMPOSITION CANOPY COVER(%)

	MEAN	RANGE	CONST.
SHRUBS			
PRICKLY ROSE *(Rosa acicularis)*	T	0-1	33
FORBS			
CLOVER *(Trifolium spp.)*	7	0-35	66
DANDELION *(Taraxacum officinale)*	37	4-75	100
WILD STRAWBERRY *(Fragaria virginiana)*	2	0-8	50
GRASSES			
CREEPING RED FESCUE *(Festuca rubra)*	1	1-2	42
TIMOTHY *(Phleum pratense)*	2	0-7	42
KENTUCKY BLUEGRASS *(Poa pratensis)*	33	0-85	100

ENVIRONMENTAL VARIABLES

MOISTURE REGIME (MEAN):
MESIC-SUBHYGRIC

NUTRIENT REGIME (MEAN):
MESOTROPHIC TO PERMESOTROPHIC

ELEVATION:
457-606 (587)M

SOIL DRAINAGE (MEAN):
WELL TO MODERATELY WELL

FORAGE PRODUCTION (KG/HA)

GRASS	1408(557-2270)
FORBS	702(60-1772)
SHRUBS	13(0-100)
TOTAL	2120(989-3051)

SUGGESTED GRAZING CAPACITY
0.5 HA/AUM

DMB2. Kentucky bluegrass/Canada thistle

(Poa pratensis/Cirsium arvense)

n=1 This community type represents a native Marsh reedgrass community that has been heavily grazed for a prolonged period of time. The heavy grazing pressure has eliminated the native species cover and has allowed Kentucky bluegrass, dandelion and Canada thistle to invade onto the site. Canada thistle is unpalatable to livestock and restricts their movement throughout the field. If left untreated it will dominate the site and the field will become unuseable. Mowing or spraying with herbicide will help to control Canada thistle.

PLANT COMPOSITION CANOPY COVER(%)

	MEAN	RANGE	CONST.
FORBS			
CLOVER *(Trifolium spp.)*	6	-	100
DANDELION *(Taraxacum officinale)*	19	-	100
CANADA THISTLE *(Cirsium arvense)*	29	-	100
GRASSES			
CREEPING RED FESCUE *(Festuca rubra)*	1	-	100
FOXTAIL BARLEY *(Hordeum jubatum)*	1	-	100
KENTUCKY BLUEGRASS *(Poa pratensis)*	75	-	100

ENVIRONMENTAL VARIABLES

MOISTURE REGIME (MEAN):
SUBHYGRIC

NUTRIENT REGIME (MEAN):
PERMESOTROPHIC

ELEVATION:
609M

SOIL DRAINAGE (MEAN):
MODERATELY WELL

FORAGE PRODUCTION(KG/HA)

GRASS	1500
FORBS	500
TOTAL	2000

SUGGESTED GRAZING CAPACITY
0.6 HA/AUM

DMB3. Timothy/Dandelion

(Phleum pratense / Taraxacum officinale)

n=4 This community type develops on sites that were seeded with a timothy, smooth brome, creeping red fescue, clover mixture. Timothy establishes much quicker than creeping red fescue or smooth brome on pastures that have been recently seeded. Eventually creeping red fescue and smooth brome will outcompete timothy and this community will likely become dominated by creeping red fescue and smooth brome. Timothy provides excellent forage for domestic livestock, especialy if timothy is kept in the vegetative state by mowing or grazing.

PLANT COMPOSITION CANOPY COVER(%)

	MEAN	RANGE	CONST.
SHRUBS			
WILLOW SPP. *(Salix spp.)*	10	0-30	50
FORBS			
ALSIKE CLOVER *(Trifolium hybridum)*	9	0-30	100
DANDELION *(Taraxacum officinale)*	21	3-49	100
STRAWBERRY *(Fragaria virginiana)*	3	0-12	50
GRASSES			
CREEPING RED FESCUE *(Festuca rubra)*	9	0-35	25
TIMOTHY *(Phleum pratense)*	39	7-60	100
SMOOTH BROME *(Bromus inermis)*	8	0-30	50

ENVIRONMENTAL VARIABLES

MOISTURE REGIME (MEAN):
MESIC TO SUBHYGRIC

NUTRIENT REGIME (MEAN):
MESOTROPHIC TO PERMESOTROPHIC

ELEVATION:
576-701(658)M

SOIL DRAINAGE (MEAN):
WELL (MODERATELY WELL)

FORAGE PRODUCTION (KG/HA)

GRASS	3893(2294-5492)
FORBS	565(360-770)
SHRUBS	0
TOTAL	4458(3004-5852)

SUGGESTED GRAZING CAPACIT
0.2 HA/AUM

DMB4. Foxtail barley/Sweet clover

(Hordeum jubatum/Meliolatus officinalis)

n=1 This community was found in a depressional area on a river flood plain in a field that appeared to have been cultivated. It is likely the cultivation process allowed foxtail barley to invade onto the site. Foxtail barley is also well adapted to growing on saline soils (Bailey et al. 1992). It is likely that the soils of this site are slightly saline. This community type would be considered non-use because the principle forage species foxtail barley is generally unpalatable to livestock. Foxtail barley can also cause injury to livestock. The sharp seeds and awns may work their way into tongues, gums, eyes, noses or skins of animals.

PLANT COMPOSITION CANOPY COVER(%)

	MEAN	RANGE	CONST.
FORBS			
CLOVER *(Trifolium spp.)*	5	-	100
SWEET CLOVER *(Meliolatus officinalis)*	5	-	100
YELLOW LUCERNE (*Medicago falcata)*	11	-	100
COMMON PLANTAIN (*Plantago major*)	4	-	100
CANADA THISTLE (*Cirsium arvense*)	2	-	100
GRASSES			
FOXTAIL BARLEY *(Hordeum jubatum)*	68	-	100
TIMOTHY *(Phleum pratense)*	18	-	100
FOWL BLUEGRASS *(Poa palustris)*	1	-	100

ENVIRONMENTAL VARIABLES

MOISTURE REGIME (MEAN):
MESIC TO SUBHYGRIC

NUTRIENT REGIME (MEAN):
MESOTROPHIC TO PERMESOTROPHIC (3.30)

ELEVATION:
455M

SOIL DRAINAGE (MEAN):
MODERATELY WELL

FORAGE PRODUCTION (KG/HA)

GRASS	1200
FORBS	300
SHRUBS	0
TOTAL	1500

SUGGESTED GRAZING CAPACITY
NON - USE

DMB5. Quackgrass/Dandelion

(Agropyron repens/Taraxacum officinale)

n=2 This community type was described next to old homestead sites. Quackgrass is a rhizomatous, introduced species that has become well established in the settled portions of the province as a vigorous, persistent weed. If kept in the vegetative state it can provide good productive forage for domestic livestock. Unfortunately, once this species has established onto cropland it is very difficult and expensive to control.

PLANT COMPOSITION CANOPY COVER(%)

	MEAN	RANGE	CONST.
SHRUBS			
WILD RED RASPBERRY *(Rubus ideaus)*	15	0-30	50
FORBS			
AMERICAN VETCH *(Vicia americana)*	1	1-2	100
DANDELION *(Taraxacum officinale)*	27	25-28	100
COMMON YARROW *(Achillea millefolium)*	1	1-2	100
GRASSES			
QUACKGRASS *(Agropyron repens)*	29	12-45	100
KENTUCKY BLUEGRASS *(Poa pratensis)*	8	6-10	100
SMOOTH BROME (*Bromus inermis*)	11	6-15	100
CREEPING RED FESCUE (*Festuca rubra*)	8	0-15	50

ENVIRONMENTAL VARIABLES

MOISTURE REGIME (MEAN):
MESIC

NUTRIENT REGIME (MEAN):
MESOTROPHIC

ELEVATION:
579-606M

SOIL DRAINAGE (MEAN):
WELL

FORAGE PRODUCTION(KG/HA)

GRASS	1000(500-1500)
FORBS	1650(800-2500)
SHRUBS	0
TOTAL	2650(2300-3000)

SUGGESTED GRAZING CAPACITY
0.3 HA/AUM

DMB6. Reed canary grass/Cicer milkvetch

(Phalaris arundinacea/Astragalus cicer)

n=1 This community type represents pipelines that have been seeded with reed canary grass and cicer milkvetch. Reed canary grass establishes quickly in wet places that have been disturbed. Care should be taken when seeding reed canary grass. It appears that the commercial cultivars can be very invasive (Invasive plants of natural habitats 1992). In areas that have supported reed canary grass monocultures for extended periods many have seed banks devoid of other species. Cicer milkvetch is also well adapted to growing on moist soils, but this species is also invasive. Plants of cicer milkvetch were found growing off the pipeline under aspen. When seeding disturbed lands thought must be given to the compatibility of the tame species to the surrounding environment. The two dominant species of this community type appear to be invasive and probably should not have been seeded.

PLANT COMPOSITION CANOPY COVER(%)

	MEAN	RANGE	CONST.
FORBS			
CLOVER *(Trifolium spp.)*	6	-	100
DANDELION *(Taraxacum officinale)*	2	-	100
CICER MILKVETCH *(Astragalus cicer)*	26	-	100
GRASSES			
CREEPING RED FESCUE *(Festuca rubra)*	11	-	100
REED CANARY GRASS *(Phalaris arundinacea)*	55	-	100
TIMOTHY *(Phleum pratense)*	9	-	100

ENVIRONMENTAL VARIABLES

MOISTURE REGIME (MEAN):
SUBHYGRIC

NUTRIENT REGIME (MEAN):
PERMESOTROPHIC
ELEVATION:
667M
SOIL DRAINAGE (MEAN):
MODERATELY WELL

FORAGE PRODUCTION(KG/HA)

GRASS	2995(2769-3221)
TOTAL	2995(2769-3221)

SUGGESTED GRAZING CAPACITY
0.3 HA/AUM

DMB7. Creeping red fescue/Clover-Dandelion

(Festuca rubra /Trifolium spp.-Taraxacum officinale)

n=31 This community type develops on sites that were seeded with a creeping red fescue, timothy, clover mixture and have a history of light to moderate to grazing pressure. Heavy continuous grazing will allow Kentucky bluegrass and dandelion to invade into the stand to form a Kentucky bluegrass/Clover-Dandelion community type. This community type is usually considered to be in fair to good condition.

PLANT COMPOSITION CANOPY COVER(%)

	MEAN	RANGE	CONST.
SHRUBS			
PRICKLY ROSE (*Rosa acicularis*)	2	0-6	61
FORBS			
CLOVER (*Trifolium spp.*)	11	6-22	100
DANDELION (*Taraxacum officinale*)	11	0-42	83
WILD STRAWBERRY (*Fragaria virginiana*)	2	0-4	74
GRASSES			
CREEPING RED FESCUE (*Festuca rubra*)	23	6-74	100
SMOOTH BROME (*Bromus inermis*)	2	0-20	23
TIMOTHY (*Phleum pratense*)	6	0-18	65
KENTUCKY BLUEGRASS (*Poa pratensis*)	5	0-23	72

ENVIRONMENTAL VARIABLES

MOISTURE REGIME (MEAN):
MESIC

NUTRIENT REGIME (MEAN):
MESOTROPHIC TO PERMESOTROPHIC
ELEVATION:
457-606(597)M

SOIL DRAINAGE (MEAN):
WELL (MODERATELY WELL)

FORAGE PRODUCTION(KG/HA)

GRASS	1408(1104-227)
FORBS	702(60-1772)
SHRUBS	13(0-100)
TOTAL	2120(989-3051)

SUGGESTED GRAZING CAPACITY
0.5 HA/AUM

DMB8. Smooth brome-Creeping red fescue/Strawberry

(Bromus inermis-Festuca rubra/Fragaria virginiana)

n=1 This community type occurs on cleared pastures that were seeded with a smooth brome, creeping red fescue-clover mix. With a moderate grazing regime, smooth brome grass is the most competitive forage plant seeded into this site. It out-competes timothy because it is strongly rhizomatous and is able to fill in the gaps between plants allowing it to shade out the timothy . Smooth brome grass also out-competes creeping red fescue because it establishes faster.

PLANT COMPOSITION CANOPY COVER(%)

	MEAN	RANGE	CONST.
SHRUBS			
PRICKLY ROSE (*Rosa acicularis*)	2	-	100
FORBS			
CLOVER *(Trifolium spp.)*	15	-	100
DANDELION *(Taraxacum offincinale)*	20	-	100
WILD STAWBERRY *(Fragaria virginiana)*	35	-	100
GRASSES			
CREEPING RED FESCUE *(Festuca rubra)*	60	-	100
SMOOTH BROME *(Bromus inermis)*	75	-	100
TIMOTHY *(Phleum pratense)*	5	-	100
KENTUCKY BLUEGRASS *(Poa pratensis)*	5	-	100

ENVIRONMENTAL VARIABLES

MOISTURE REGIME (MEAN):
MESIC

NUTRIENT REGIME (MEAN):
MESOTROPHIC

ELEVATION:
579M

SOIL DRAINAGE (MEAN):
WELL

FORAGE PRODUCTION(KG/HA)

GRASS	3248
FORBS	62
SHRUBS	0
TOTAL	3310

SUGGESTED GRAZING CAPACITY
0.33 HA/AUM

DMB9. Aw/Strawberry/Hairy wildrye

(Populus tremuloides/Fragaria virginiana/Elymus innovatus)

n=4 This community type occurs in cultivated pastures that are being invaded by aspen. No grazing pressure or only light grazing pressure allows aspen to recolonize these cultivated pastures. Burning, cultivation and spraying with herbicide are all options that can be considered in order to control aspen regrowth.

PLANT COMPOSITION CANOPY COVER(%)

	MEAN	RANGE	CONST.
SHRUBS			
PRICKLY ROSE (*Rosa acicularis*)	2	0-4	75
FORBS			
CLOVER *(Trifolium spp.)*	2	0-5	75
DANDELION *(Taraxacum offincinale)*	15	0-28	75
WILD STAWBERRY *(Fragaria virginiana)*	5	2-12	75
GRASSES			
CREEPING RED FESCUE *(Festuca rubra)*	1	0-2	75
SMOOTH BROME *(Bromus inermis)*	2	0-6	25
TIMOTHY *(Phleum pratense)*	1	0-4	50
KENTUCKY BLUEGRASS *(Poa pratensis)*	6	0-8	75
HAIRY WILDRYE (*Elymus innovatus)*	6	5-15	75

ENVIRONMENTAL VARIABLES

MOISTURE REGIME (MEAN):
MESIC

NUTRIENT REGIME (MEAN):
MESOTROPHIC

ELEVATION:
606M

SOIL DRAINAGE (MEAN):
WELL

FORAGE PRODUCTION(KG/HA)

GRASS	570(280-650)
FORBS	1484(360-4400)
SHRUBS	318(150-420)
TREES	664(0-1720)
TOTAL	3036(1500-5000)

SUGGESTED GRAZING CAPACITY
0.3 HA/AUM

DRY MIXEDWOOD SUBREGION

DECIDUOUS FOREST COMMUNITY TYPES

Photo 4. Aw/Rose/Tall forb community type in the Dry Mixedwood subregion

DM - DECIDUOUS FOREST COMMUNITIES

All of the deciduous stands sampled in the Dry Mixedwood subregion were dominated by aspen and had a significant rose understory. In both Brierley et al. (1985) and Beckingham's (1993) deciduous classifications in the same subregion rose was the dominant or codominant understory shrub species in nearly every aspen-dominated community type. In Beckingham's classification rose was present in 205 of the 209 aspen-dominated stands. Rose is well adapted to a wide variety of site conditions with a moderate supply of nutrients. The moisture regime can vary from submesic to subhygric and the sites can be well to imperfectly drained.

It appears the secondary forb and shrub species in association with rose characterize the ecological conditions of aspen forest types in the Dry Mixedwood subregion. Indeed, many of the deciduous types in Beckingham's classification were based on the secondary shrub species.

In the Dry Mixedwood classification 10 community types were described in the Grande Prairie and Peace River area (Debolt, Dunvegan, Falher, Smoky, Grimshaw, Manning, High Level and Boyer Plains ecodistricts)(Strong and Thompson 1995). The Aw/Rose/Bearberry type is found on well-drained, sandy sites in association with jack pine stands. The Aspen/Alder type is found on moist, moderately drained sites at higher elevations and the Aspen/Rose(Aw/Rose/Tall forb, Aw/Rose/Low forb, Aw/Rose-Hazelnut, Aw/Buffaloberry-Rose and Aw/Saskatoon-Rose) site types are moderately well-drained, with mesic moisture and mesotrophic nutrient regimes. Beckingham (1993), felt the Aspen/Buffaloberry type occurred on somewhat nutrient-poor soils. The three stands in this classification were also found at higher elevations (>650 m). The Aspen/Rose/Tall and Low forb community types occupy similar site conditions. The difference between these two types may be related to grazing pressure. The Aspen/Rose/Low forb type has a low total cover of forbs (48%), whereas the Aspen/Rose/Tall forb type has a high total cover of forbs (81%). The increased grazing pressure in the Aspen/Rose/Low forb type may have caused a reduction in forb cover. The Aspen/Rose-Hazelnut type is found on mesic, well-drained sites and appears to be the reference deciduous type for this subregion, particularly in the more eastern ecodistricts. The Aspen/Horsetail and Aw/Willow type was found on moist poorly drained sites adjacent to some willow shrublands.

One balsam poplar-dominated community was described in the western and eastern ecodistricts. This community was very typical of forests situated along the flood plains of rivers.

The hazelnut-dominated community types were very common within the eastern ecodistricts in the southern part of the subregion (St. Paul, Bonnyville, Smoky Lake). The presence of hazelnut appears to be indicative of warmer sites (Beckingham 1993) and have some fire history (Downing and Karpuk 1992). The Aw/Hazelnut-Rose/Wild sarsaparilla was slightly moister and appears to have a higher nutrient regime than the Aw/Hazelnut-Rose/Peavine community type. The Aw/Rose-Blueberry community type is typical of sandy, well-drained sites throughout the Dry Mixedwood subregion. This community type is very similar to the Aw/Blueberry-Rose community type described in the Central Mixedwood subregion. The Aw/Rose-Low-bush cranberry community type was described on the border between the Central and Dry Mixedwood subregions. It resembles the modal Aw/Rose-dominated community described in the Central Mixedwood subregion. The sequence of community types in the landscape of the eastern ecodistricts is outlined in figure 2.

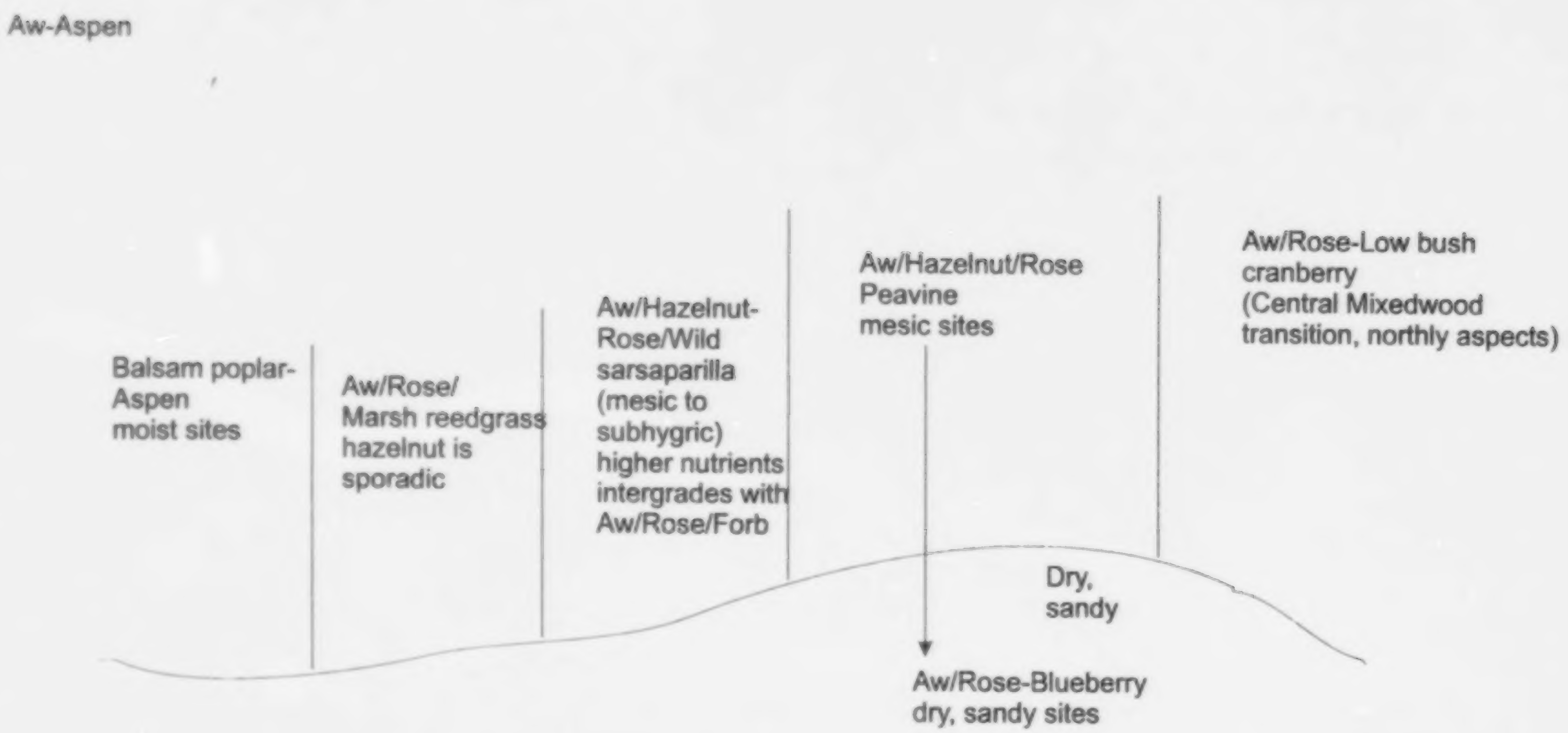

Aw-Aspen
Balsam poplar-
Aspen
moist sites
Aw/Rose/
Marsh reedgrass
hazelnut is
sporadic
Aw/Hazelnut-
Rose/Wild
sarsaparilla
(mesic to
subhygric)
higher nutrients
intergrades with
Aw/Rose/Forb
Aw/Hazelnut/Rose
Peavine
mesic sites
Dry,
sandy
Aw/Rose-Blueberry
dry, sandy sites
Aw/Rose-Low bush
cranberry
(Central Mixedwood
transition, northly aspects)

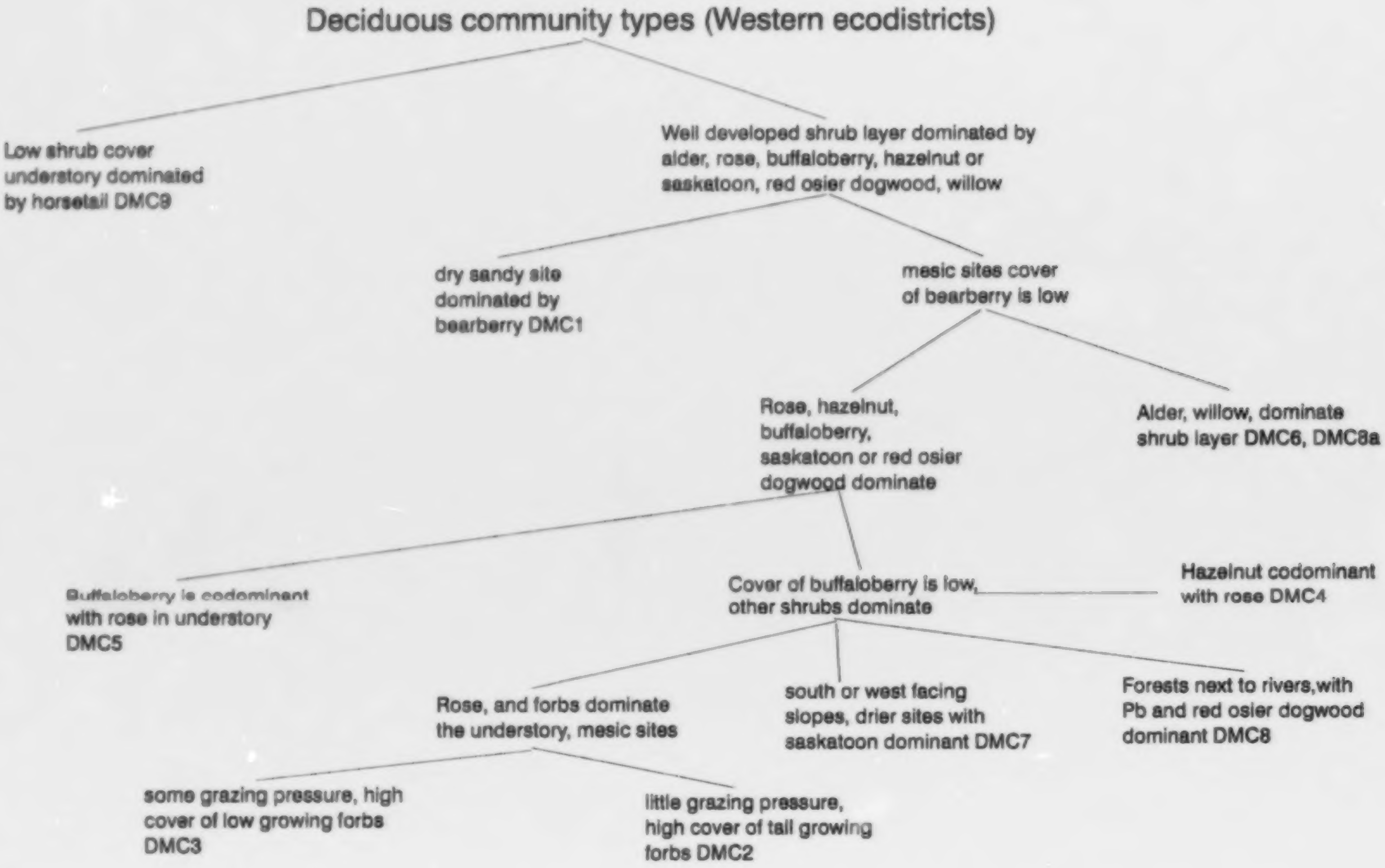
Figure 2. Sequence of deciduous community types in the landscape of the Dry Mixedwood subregion of east-central Alberta

Table 4. Deciduous community types described in the Dry Mixedwood subregion

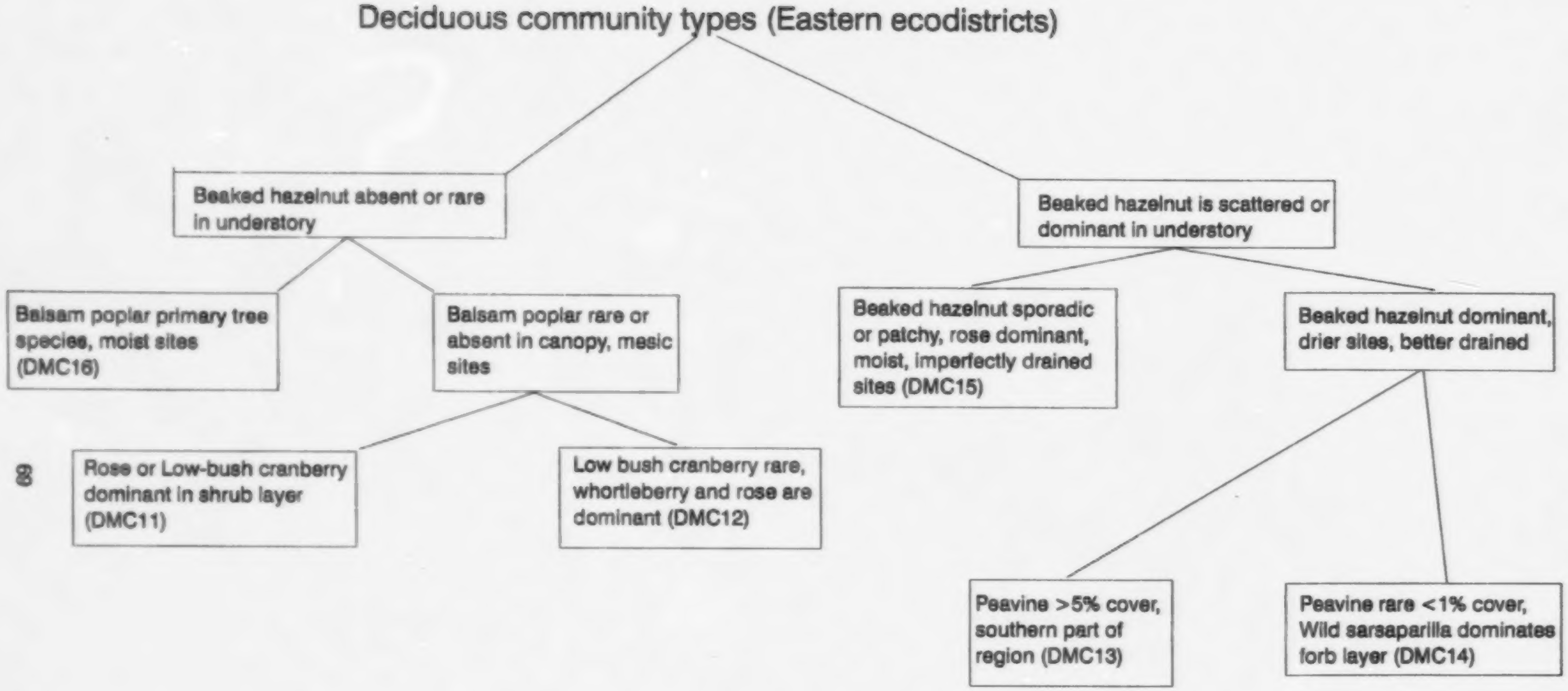
Community number	Community type	Productivity (kg/ha)				Ecosite	Carrying capacity (ha/AUM)
		Grass	Forb	Shrub	Total		
Ecosite phase	**b2 blueberry Aw(Bw)**	**324**	**220**	**169**	**701**		**2.6**
DMC1	Aw/Rose/Bearberry	339	263	145	728	submesic/medium	2.5
DMC12	Aw//Rose-Blueberry	303	177	193	673	submesic/poor	2.7
Ecosite phase	**d1 low bush cranberry Aw**	**125**	**474**	**434**	**1043**		**1.7**
DMC2	Aw/Rose/Tall forb	169	507	282	958	mesic/medium	1.9
DMC4	Aw/Rose-Hazelnut	77	457	441	995	mesic/medium	1.8
DMC5	Aw/Buffaloberry-Rose	19	658	219	897	mesic/medium	2.1
DMC6	Aw/Alder	170	356	556	1082	mesic/medium	1.7
DMC7	Aw/Saskatoon-Rose	153	419	524	1096	mesic/medium	1.7
DMC8a	Aw/Willow	155	520	130	885	subhygric/rich	Non-use
DMC11	Aw/Rose-Low bush cranberry	261	418	163	842	mesic/medium	2.2
DMC13	Aw/Beaked hazelnut-Rose/Peavine	57	447	779	1283	mesic/medium	1.4

Table 4. Deciduous community types described in the Dry Mixedwood subregion

DMC14	Aw/Beaked hazelnut-Rose/Wild sarsaparilla	57	447	779	1283	mesic/medium	1.4
DMC15	Aw/Rose/Marsh reedgrass	130	513	467	1110	mesic/medium	1.6
Ecosite phase	**d1 grazed Aw**	**285**	**339**	**300**	**937**		**2.0**
DMC3	Aw/Rose/Low forb	285	339	300	937	mesic/medium	2.0
Ecosite phase	**d1 harvested Aw**	**626**	**580**	**810**	**2013**		**2.0**
DMC10	Deciduous cutblocks	626	580	810	2013	mesic/medium	2.0
Ecosite phase	**e1 dogwood Aw-Pb**	**75**	**244**	**378**	**697**		**2.6**
DMC8	Pb/Red osier dogwood-Rose	50	150	400	600	subhygric/rich	Non-use
DMC16	Pb-Aw/Rose	100	338	355	793	subhygric/rich	2.4
Ecosite phase	**f1 horsetail Pb-Aw**	**188**	**544**	**302**	**1034**		**Non-use**
DMC9	Aw/Horsetail	188	544	302	1034	hygric/rich	Non-use


Deciduous community types (Western ecodistricts)
Low shrub cover understory dominated by horsetail DMC9
Well developed shrub layer dominated by alder, rose, buffaloberry, hazelnut or saskatoon, red osier dogwood, willow
dry sandy site dominated by bearberry DMC1
mesic sites cover of bearberry is low
Rose, hazelnut, buffaloberry, saskatoon or red osier dogwood dominate
Alder, willow, dominate shrub layer DMC6, DMC8a
Buffaloberry is codominant with rose in understory DMC5
Cover of buffaloberry is low, other shrubs dominate
Hazelnut codominant with rose DMC4
Rose, and forbs dominate the understory, mesic sites
south or west facing slopes, drier sites with saskatoon dominant DMC7
Forests next to rivers,with Pb and red osier dogwood dominant DMC8
some grazing pressure, high cover of low growing forbs DMC3
little grazing pressure, high cover of tall growing forbs DMC2

Key to deciduous communities in the western ecodistricts of the Dry Mixedwood subregion


Deciduous community types (Eastern ecodistricts)
Beaked hazelnut absent or rare in understory
Beaked hazelnut is scattered or dominant in understory
Balsam poplar primary tree species, moist sites (DMC16)
Balsam poplar rare or absent in canopy, mesic sites
Beaked hazelnut sporadic or patchy, rose dominant, moist, imperfectly drained sites (DMC15)
Beaked hazelnut dominant, drier sites, better drained
Rose or Low-bush cranberry dominant in shrub layer (DMC11)
Low bush cranberry rare, whortleberry and rose are dominant (DMC12)
Peavine >5% cover, southern part of region (DMC13)
Peavine rare <1% cover, Wild sarsaparilla dominates forb layer (DMC14)

Key to deciduous community types in the Dry Mixedwood of east-central Alberta

DMC1. Aw/Rose/Bearberry

(Populus tremuloides/Rosa acicularis/Arctostaphylos uva-ursi)

n=9 This community type is found on dry, well-drained, sandy sites interspersed with stands of jack pine and is part of the blueberry ecosite outlined by Beckingham and Archibald (1996). The canopy cover of aspen is open allowing for easy access by livestock, but the dry site conditions and poorer nutrient status limit the amount of regrowth after grazing. If this community type is managed for one rotation a year, it can contribute significantly to the overall carrying capacity of a lease. This community type would be considered to be primary range for domestic livestock.

PLANT COMPOSITION CANOPY COVER(%)

	MEAN	RANGE	CONST.
TREES			
Trembling Aspen *(Populus tremuloides)*	39	20-75	100
WHITE SPRUCE *(Picea glauca)*	3	0-15	41
SHRUBS			
PRICKLY ROSE *(Rosa acicularis)*	7	1-21	100
SASKATOON *(Amelanchier alnifolia)*	5	1-14	100
BLUEBERRY *(Vaccinium myrtilloides)*	1	0-1	33
FORBS			
BEARBERRY *(Arctostaphylos uva-ursi)*	18	9-36	100
TWINFLOWER *(Linnaea borealis)*	6	0-14	89
LINDLEY'S ASTER *(Aster ciliolatus)*	2	0-6	89
WILD LILY OF THE VALLEY *(Maianthemum canadense)*	6	2-9	100
YELLOW PEAVINE (*Lathyrus ochroleucus*)	10	3-31	100
WILD SARSAPARILLA *(Aralia nudicaulis)*	1	0-3	33
GRASSES			
MOUNTAIN RICE GRASS *(Oryzopsis asperfolia)*	8	0-22	78
HAIRY WILDRYE (*Elymus innovatus*)	6	1-16	100
PURPLE OATGRASS (*Schizachne purpurascens*)	3	0-10	89
NORTHERN RICEGRASS (*Oryzopsis pungens*)	3	0-10	78

ENVIRONMENTAL VARIABLES

MOISTURE REGIME:
SUBMESIC
NUTRIENT REGIME:
SUBMESOTROPHIC
ELEVATION:
455 M

SOIL DRAINAGE:
WELL

FORAGE PRODUCTION(KG/HA)

GRASS	339(166-442)
FORBS	263(64-610)
SHRUBS	145(56-266)
TOTAL	728(230-1284)

SUGGESTED GRAZING CAPACITY
2.5 HA/AUM

DMC2. Aw/Rose/Tall forb

(Populus tremuloides/Rosa acicularis/Tall forbs)

n=30 This community type is part of the low bush cranberry ecosite outlined by Beckingham and Archibald (1996). This community type is also very similar to the Aspen/Rose/Low forb community type, but the cover of forbs is much higher. This appears to be related to the grazing pressure. The higher the grazing pressure on the Aw/Rose/Tall forb community type appears to cause a reduction in the cover of tall growing forbs (wild sarsaparilla, fireweed, peavine, showy aster) and favours the growth of low growing forbs (bunchberry, dewberry, wintergreen, strawberry). This community type is providing a moderate amount of forage for domestic livestock and would be considered primary range on a forested disposition.

PLANT COMPOSITION CANOPY COVER(%)

	MEAN	RANGE	CONST.
TREES			
TREMBLING ASPEN			
(Populus tremuloides)	43	15-70	100
BALSAM POPLAR			
(Populus balsamifera)	1	0-10	37
SHRUBS			
HAZELNUT			
(Corylus cornuta)	2	0-12	20
WILD RED RASPBERRY			
(Rubus idaeus)	5	0-10	97
BRACTED HONEYSUCKLE			
(Lonicera involucrata)	2	0-32	30
PRICKLY ROSE			
(Rosa acicularis)	10	1-24	100
LOW BUSH CRANBERRY			
(Viburnum edule)	4	0-36	77
FORBS			
FIREWEED			
(Epilobium angustifolium)	1	0-7	50
DEWBERRY OR RUNNING RASPBERRY			
(Rubus pubescens)	3	0-7	77
PALMATE-LEAVED COLTSFOOT			
(Petasites palmatus)	2	0-10	77
WILD STRAWBERRY			
(Fragaria virginiana)	2	0-4	83
LINDLEY'S ASTER			
(Aster ciliolatus)	1	0-4	77
YELLOW PEAVINE			
(Lathyrus ochroleucus)	9	0-27	97
WILD SARSAPARILLA			
(Aralia nudicaulis)	12	0-57	77
GRASSES			
MARSH REED GRASS			
(Calamagrostis canadensis)	2	0-9	83
HAIRY WILDRYE			
(Elymus innovatus)	2	0-7	77

ENVIRONMENTAL VARIABLES

MOISTURE REGIME:
MESIC TO SUBHYGRIC

NUTRIENT REGIME:
MESOTROPHIC TO PERMESOTROPHIC

ELEVATION:
455-606(496) M

PERCENT SLOPE GRADIENT:
0 - 25(5)

SOIL DRAINAGE:
WELL TO MODERATELY WELL

FORAGE PRODUCTION(KG/HA)

GRASS	169(0-444)
FORBS	507(72-988)
SHRUBS	282(118-378)
TOTAL	958(624-1810)

SUGGESTED GRAZING CAPACITY
1.9 HA/AUM

DMC3. Aw/Rose/Low forb

(Populus tremuloides/Rosa acicularis/Low forbs)

n=54 This community type is part of the low bush cranberry ecosite described by Beckingham and Archibald (1996) and is very similar to the Aw/Rose/Tall forb community type previously described. The difference in the community types appears to be related to the grazing pressure. The higher the grazing pressure on the Aw/Rose/Tall forb community type appears to cause a reduction in the cover of tall growing forbs (wild sarsaparilla, fireweed, peavine, showy aster) and favours the growth of low growing forbs (bunchberry, dewberry, wintergreen, strawberry). This community type is providing a moderate amount of forage for domestic livestock and would be considered primary range on a forested disposition.

PLANT COMPOSITION

	CANOPY COVER(%)		
	MEAN	RANGE	CONST.
TREES			
TREMBLING ASPEN *(Populus tremuloides)*	48	15-85	100
BALSAM POPLAR *(Populus balsamifera)*	1	0-15	22
SHRUBS			
WILLOW SPP. *(Salix spp.)*	2	0-20	36
SASKATOON *(Amelanchier alnifolia)*	1	0-11	48
WILD RED RASPBERRY *(Rubus idaeus)*	6	0-20	94
SNOWBERRY *(Symphoricarpos occidentalis)*	4	0-38	89
PRICKLY ROSE *(Rosa acicularis)*	14	1-55	100
FORBS			
FIREWEED *(Epilobium angustifolium)*	1	0-11	41
DEWBERRY OR RUNNING RASPBERRY *(Rubus pubescens)*	3	0-30	75
PALMATE-LEAVED COLTSFOOT *(Petasites palmatus)*	1	0-30	48
WILD STRAWBERRY *(Fragaria virginiana)*	4	0-12	93
LINDLEY'S ASTER *(Aster ciliolatus)*	3	0-12	91
BUNCHBERRY *(Cornus canadensis)*	5	0-22	82
WILD SARSAPARILLA *(Aralia nudicaulis)*	1	0-9	35
WINTERGREEN *(Pyrola asarifolia)*	4	0-20	87
GRASSES			
MARSH REED GRASS *(Calamagrostis canadensis)*	2	0-20	80
SLENDER WHEATGRASS *(Agropyron trachycaulum)*	2	0-40	32
HAIRY WILDRYE *(Elymus innovatus)*	3	0-22	78

ENVIRONMENTAL VARIABLES

MOISTURE REGIME:
MESIC TO SUBHYGRIC
NUTRIENT REGIME:
MESOTROPHIC TO PERMESOTROPHIC
ELEVATION:
455-697(524) M
PERCENT SLOPE GRADIENT:
0 - 5
SOIL DRAINAGE:
WELL TO MODERATELY WELL

FORAGE PRODUCTION(KG/HA)

GRASS	285(12-996)
FORBS	339(90-842)
SHRUBS	300(0-896)
TOTAL	937(414-2074)

SUGGESTED GRAZING CAPACITY
2.0 HA/AUM

DMC4. Aw/Rose-Hazelnut

(Populus tremuloides/Rosa acicularis-Corylus cornuta)

n=6 Beaked hazelnut is a common component of many of the deciduous stands in both the western and eastern ecodistricts of the Dry Mixedwood subregion. The presence of hazelnut appears to be indicative of warmer sites and have some fire history (Downing and Karpuk 1992). The total forage productivity of this community type is only moderate, but the majority of the production is coming from hazelnut, which is largely unpalatable to livestock at proper stocking levels. The high cover of hazelnut also restricts access to livestock, limiting the forage availability. This community type would be rated as secondary range.

PLANT COMPOSITION CANOPY COVER(%)

	MEAN	RANGE	CONST.
TREES			
TREMBLING ASPEN *(Populus tremuloides)*	52	35-75	100
BALSAM POPLAR *(Populus balsamifera)*	3	0-15	17
SHRUBS			
HAZELNUT *(Corylus cornuta)*	20	12-28	100
PRICKLY ROSE *(Rosa acicularis)*	18	9-25	100
SNOWBERRY (*Symphoricarpos occidentalis,albus*)	7	4-9	100
SASKATOON (*Amelanchier alnifolia*)	9	1-18	100
LOW BUSH CRANBERRY (*Viburnum edule*)	4	0-16	50
FORBS			
SHOWY ASTER *(Aster conspicuus)*	2	0-7	67
DEWBERRY OR RUNNING RASPBERRY *(Rubus pubescens)*	2	0-3	67
PEAVINE *(Lathyrus ochroleucus)*	3	1-7	100
AMERICAN VETCH *(Vicia americana)*	1	0-2	67
FAIRY BELLS *(Disporum trachycaulum)*	2	0-5	83
WILD SARSAPARILLA *(Aralia nudicaulis)*	8	0-25	83
GRASSES			
MARSH REED GRASS *(Calamagrostis canadensis)*	1	0-2	50

ENVIRONMENTAL VARIABLES

MOISTURE REGIME:
MESIC TO SUBHYGRIC

NUTRIENT REGIME:
MESOTROPHIC TO PERMESOTROPHIC

ELEVATION:
455 M

PERCENT SLOPE GRADIENT:
0-15 %

SOIL DRAINAGE:
WELL TO MODERATELY WELL

FORAGE PRODUCTION(KG/HA)

GRASS	77(2-200)
FORBS	457(398-520)
SHRUBS	441(348-522)
TOTAL	995(830-1180)

SUGGESTED GRAZING CAPACITY
1.8 HA/AUM

DMC5. Aw/Buffaloberry-Rose

(Populus tremuloides/ Shepherdia canadensis-Rosa acicularis)

n=4 This community type was found on mesic sites at higher elevations in the Saddle and Birch hills. Beckingham (1993) felt the Aw/Buffaloberry type was slightly drier and had a slightly poorer nutrient regime than the modal Aw/Rose community types. This type is providing a moderate amount of forage for domestic livestock, but the drier site conditions and poorer nutrient status will limit regrowth after grazing. Buffaloberry the predominant shrub species in this community type, is generally unpalatable to livestock.

PLANT COMPOSITION CANOPY COVER(%)

	MEAN	RANGE	CONST.
TREES			
TREMBLING ASPEN *(Populus tremuloides)*	56	30-85	100
SHRUBS			
BUFFALOBERRY *(Shepherdia canadensis)*	28	21-38	100
WILD RED RASPBERRY *(Rubus idaeus)*	4	0-8	75
BRACTED HONEYSUCKLE *(Lonicera involucrata)*	1	0-2	25
PRICKLY ROSE *(Rosa acicularis)*	9	4-17	100
LOW BUSH CRANBERRY *(Viburnum edule)*	1	0-14	50
FORBS			
BUNCHBERRY *(Cornus canadensis)*	10	0-21	75
DEWBERRY OR RUNNING RASPBERRY *(Rubus pubescens)*	3	0-9	75
YELLOW PEAVINE *(Lathyrus ochroleucus)*	10	4-18	100
TWINFLOWER *(Linnaea borealis)*	4	0-8	75
GRASSES			
MARSH REED GRASS *(Calamagrostis canadensis)*	3	1-7	100
HAIRY WILDRYE *(Elymus innovatus)*	6	1-15	100

ENVIRONMENTAL VARIABLES

MOISTURE REGIME:
MESIC

NUTRIENT REGIME:
MESOTROPHIC

ELEVATION:
455-758(556) M

PERCENT SLOPE GRADIENT:
0-15

SOIL DRAINAGE:
WELL

FORAGE PRODUCTION(KG/HA)

GRASS	19(12-26)
FORBS	658(426-986)
SHRUBS	219(0-392)
TOTAL	897(840-1006)

SUGGESTED GRAZING CAPACITY
2.1 HA/AUM

DMC6. Aw/Alder

(Populus tremuloides/Alnus crispa)

n=2 This community type was described at a higher elevation (600 m) in the Dry Mixedwood subregion. Brierly et al. (1985) and Beckingham (1993) both described aspen-alder communities at higher elevations (>600m). It appears that the presence of alder may indicate a transition from the Dry Mixedwood into the Lower Foothills subregion.

This community type is providing a moderate amount of forage for domestic livestock, but the high cover of alder will limit access. Consequently, this community type should be rated as secondary range.

PLANT COMPOSITION CANOPY COVER(%)

	MEAN	RANGE	CONST.
TREES			
BALSAM POPLAR *(Populus balsamifera)*	6	0-10	100
TREMBLING ASPEN *(Populus tremuloides)*	53	45-60	100
SHRUBS			
PRICKLY ROSE *(Rosa acicularis)*	9	5-12	100
WILD RED RASPBERRY *(Rubus idaeus)*	1	0-1	50
WHITE MEADOWSWEET *(Spiraea betulifolia)*	7	0-13	50
ALDER *(Alnus crispa)*	60	35-82	100
FORBS			
CREAM-COLOURED VETCHLING *(Lathyrus ochroleucus)*	3	0-6	50
BUNCHBERRY *(Cornus canadensis)*	15	0-30	50
STRAWBERRY *(Fragaria virginiana)*	1	0-1	100
WILD SARSAPARILLA *(Aralia nudicaulis)*	16	5-26	100
GRASSES			
MOUNTAIN RICEGRASS *(Oryzopsis asperifolia)*	12	0-24	50
FRINGED BROME *(Bromus ciliatus)*	2	0-4	50

ENVIRONMENTAL VARIABLES

MOISTURE REGIME:
MESIC

NUTRIENT REGIME:
MESOTROPHIC

ELEVATION:
600 M

PERCENT SLOPE GRADIENT:
5 %

SOIL DRAINAGE:
WELL

FORAGE PRODUCTION(KG/HA)

GRASS	170
FORBS	356
SHRUBS	556
TOTAL	1082

SUGGESTED GRAZING CAPACITY
1.7 HA/AUM

DMC7. Aw/Saskatoon-Rose

(Populus tremuloides/ Amelanchier alnifolia-Rosa acicularis)

n=2 This community type is found on mesic, well drained south facing slopes that overlook rivers and creeks. Generally, hazelnut, chokecherry, saskatoon and snowberry are indicative of the Dry Mixedwood subregion and are usually found associated with each other. When saskatoon predominates it usually occurs on south and west facing slopes. Saskatoon provides important browse for wild ungulates. Livestock also find saskatoon palatable and in areas where there is extensive cattle grazing this species can be heavily browsed.

PLANT COMPOSITION CANOPY COVER(%)

	MEAN	RANGE	CONST.
TREES			
TREMBLING ASPEN *(Populus tremuloides)*	53	35-70	100
SHRUBS			
SASKATOON *(Amelanchier alnifolia)*	18	15-20	100
PRICKLY ROSE *(Rosa acicularis)*	28	31-25	100
WILD RED RASPBERRY *(Rubus idaeus)*	10	2-17	100
SNOWBERRY *(Symphoricarpos occidentalis)*	7	1-12	100
CHOKECHERRY *(Prunus virginiana)*	6	0-11	50
FORBS			
SPREADING DOGBANE *(Apocynum androsaemifolium)*	6	0-11	50
CANADA VIOLET *(Viola canadensis)*	2	0-4	50
DEWBERRY OR RUNNING RASPBERRY *(Rubus pubescens)*	1	0-1	50
WILD SARSAPARILLA *(Arailia nudicaulis)*	2	0-4	50
GRASSES			
MARSH REED GRASS *(Calamagrostis canadensis)*	3	2-3	100

ENVIRONMENTAL VARIABLES

MOISTURE REGIME:
MESIC

NUTRIENT REGIME:
MESOTROPHIC

ELEVATION:
455-630 M

PERCENT SLOPE GRADIENT:
4(3-5%)

ASPECT:
SOUTHERLY-WESTERLY

SOIL DRAINAGE:
WELL

FORAGE PRODUCTION(KG/HA)

GRASS	153(42-264)
FORBS	419(250-587)
SHRUBS	524(514-534)
TOTAL	1096(826-1365)

SUGGESTED GRAZING CAPACITY
1.7 HA/AUM

DMC8. Pb/Red osier dogwood-Rose

(Populus balsamifera/Cornus stolonifera-Rosa acicularis)

n=4 This community type is typical of river floodplains throughout the Dry Mixedwood subregion. This community type tends to have a subhygric moisture and rich nutrient regime. Beckingham and Archibald (1996) found this community type on mid to lower slope topographic positions or near water courses where they recieve nutrient-rich seepage or flood waters for a portion of the growing season. This community type is one of the most productive in the Dry Mixedwood subregion, but the high cover of shrubs limits access to livestock. The high cover of tall growing shrubs (alder, red osier dogwood) also limits the growth of low shrubs, forbs and grass the principle forage species for domestic livestock in deciduous forests. As a result, this community should be rated as secondary or non-use range.

PLANT COMPOSITION CANOPY COVER(%)

	MEAN	RANGE	CONST.
TREES			
BALSAM POPLAR			
(Populus balsamifera)	22	1-35	100
TREMBLING ASPEN			
(Populus tremuloides)	10	2-25	75
SHRUBS			
RED OSIER DOGWOOD			
(Cornus stolonifera)	17	8-24	100
WILD RED RASPBERRY			
(Rubus idaeus)	5	0-18	50
PRICKLY ROSE			
(Rosa acicularis)	13	1-18	100
GREEN ALDER			
(*Alnus crispa*)	3	0-10	25
FORBS			
HORSETAIL			
(Equisetum arvense)	3	1-5	100
WILD SARSAPARILLA			
(Aralia nudicaulis)	6	0-11	75
PEAVINE			
(Lathyrus ochroleucus)	2	0-4	75
MEADOW RUE			
(Thalictrum venulosum)	1	0-1	75
GRASSES			
MARSH REED GRASS			
(Calamagrostis canadensis)	1	0-1	50

ENVIRONMENTAL VARIABLES

MOISTURE REGIME:
SUBHYGRIC
NUTRIENT REGIME:
PERMESOTROPHIC
ELEVATION:
455-606 M

SOIL DRAINAGE:
MODERATELY WELL

FORAGE PRODUCTION(KG/HA)

GRASS	13(0-50)
FORBS	213(150-250)
SHRUBS	713(400-900)
TREE	13(0-50)
TOTAL	950(600-1150)

SUGGESTED GRAZING CAPACITY
NON-USE

DMC8a. Aw/Willow

(Populus tremuloides/Salix spp.)

n=2 This community type is typical of aspen forests adjacent to sloughs and wet meadows. The edges of the sedge meadows tend to be willow dominated. This community type represents the transition from the meadow edge into the aspen dominated forest. This community type is relatively moist and nutrient rich, but the high cover of willow limits the light reaching the forest floor inhibiting the growth of understory shrub, forbs and grass. As a result there is little forage for domestic livestock. This community type would be rated as secondary or non-use range.

PLANT COMPOSITION CANOPY COVER(%)

	MEAN	RANGE	CONST.
TREES			
BALSAM POPLAR *(Populus balsamifera)*	1	0-1	50
TREMBLING ASPEN *(Populus tremuloides)*	38	26-35	100
SHRUBS			
WILLOW SPP. *(Salix spp.)*	33	30-35	100
WILD RED RASPBERRY *(Rubus idaeus)*	2	1-2	100
PRICKLY ROSE *(Rosa acicularis)*	2	1-2	100
FORBS			
STRAWBERRY *(Fragaria virginiana)*	5	4-5	100
LINDLEY'S ASTER *(Aster ciliolatus)*	3	1-5	100
PEAVINE *(Lathyrus ochroleucus)*	2	1-3	100
DEWBERRY *(Rubus pubescens)*	3	1-4	100
GRASSES			
MARSH REED GRASS *(Calamagrostis canadensis)*	2	1-3	100

ENVIRONMENTAL VARIABLES

MOISTURE REGIME:
SUBHYGRIC
NUTRIENT REGIME:
PERMESOTROPHIC
ELEVATION:
455-606 M

SOIL DRAINAGE:
MODERATELY WELL

FORAGE PRODUCTION(KG/HA)

GRASS	130(0-260)
FORBS	525(350-700)
SHRUBS	155(50-260)
TREE	75(0-150)
TOTAL	885(660-1110)

SUGGESTED GRAZING CAPACITY
NON-USE

DMC9. Aw-Pb/Horsetail

(Populus tremuloides-Populus balsamifera/Equisetum arvense)

n=2 This community occupies lowland sites adjacent to black spruce and willow lowlands. It is very moist and nutrient-rich. Horsetail types in the other subregions also tend to be moister and richer than the modal Aw/Rose types. Past overgrazing pressure appears to have been heavy at one of the sites has resulted in an alteration of understory species composition and productivity. Overuse appears to lower species diversity and allows horsetail to increase in cover.

PLANT COMPOSITION CANOPY COVER(%)

	MEAN	RANGE	CONST.
TREES			
ASPEN *(Populus tremuloides)*	43	0-85	50
BALSAM POPLAR *(Populus balsamifera)*	38	0-75	50
SHRUBS			
PRICKLY ROSE *(Rosa acicularis)*	1	1-2	100
HONEYSUCKLE *(Lonicera involcrata)*	8	1-16	100
RASPBERRY *(Rubus ideaus)*	10	0-20	50
FORBS			
HORSETAIL *(Equisetum arvense)*	42	24-60	100
BUNCHBERRY *(Cornus canadensis)*	3	0-6	50
TALL LUNGWORT *(Mertensia paniculata)*	6	5-7	100
DEWBERRY *(Rubus pubescens)*	3	0-5	50
VEINY MEADOW RUE *(Thalictrum venulosum)*	2	0-4	50
BISHOP'S CAP *(Mitella nuda)*	2	0-3	50
STRAWBERRY *(Fragaria virginiana)*	2	1-2	100
GRASSES			
MARSH REED GRASS *(Calamagrostis canadensis)*	4	3-5	100

ENVIRONMENTAL VARIABLES

MOISTURE REGIME:
HYGRIC

NUTRIENT REGIME:
PERMESOTROPHIC

ELEVATION:
590-667 M

SOIL DRAINAGE:
IMPERFECTLY

FORAGE PRODUCTION(KG/HA)

GRASS	188(104-272)
FORBS	544(450-638)
SHRUBS	302(0-604)
TOTAL	1034(910-1158)

SUGGESTED GRAZING CAPACITY
NON-USE

DMC10. Deciduous cutblocks and unseeded clearings

(Populus tremuloides)

n=4 This community type represents deciduous cutblocks and clearings that have not been seeded to tame forage species. Marsh reedgrass and strawberry initially dominated these areas. As succession occurs an understory of aspen and rose predominate. As the tree cover increases the understory species structure and diversity declines. Initially these clearings are very productive for domestic livestock until the trees grow back and limit accessiblity. Care should be taken when grazing these cutblocks that the trees are not damaged and there is sufficient regrowth to regenerate the cutblock.

PLANT COMPOSITION CANOPY COVER(%)

	MEAN	RANGE	CONST.
UNDERSTORY TREES			
BALSAM POPLAR *(Populus balsamifera)*	T	0-1	25
ASPEN *(Populus tremuloides)*	19	11-28	100
SHRUBS			
PRICKLY ROSE *(Rosa acicularis)*	18	9-22	100
LOW BUSH CRANBERRY *(Viburnum edule)*	2	0-4	75
SNOWBERRY OR BUCKBRUSH *(Symphoricarpos occidentalis)*	3	0-11	75
WILD RED RASPBERRY *(Rubus idaeus)*	5	0-16	50
FORBS			
WILD STRAWBERRY *(Fragaria virginiana)*	22	8-38	100
PALMATE-LEAVED COLTSFOOT *(Petasites palmatus)*	2	0-6	25
DEWBERRY OR RUNNING RASPBERRY *(Rubus pubescens)*	2	0-8	50
NORTHERN BEDSTRAW *(Galium boreale)*	4	0-14	75
LINDLEY'S ASTER *(Aster ciliolatus)*	4	0-12	75
GRASSES			
MARSH REED GRASS *(Calamagrostis canadensis)*	17	0-45	75

ENVIRONMENTAL VARIABLES

MOISTURE REGIME:
MESIC

NUTRIENT REGIME:
MESOTROPHIC

ELEVATION:
455-727(636) M

PERCENT SLOPE GRADIENT:
LEVEL

SOIL DRAINAGE:
WELL

FORAGE PRODUCTION(KG/HA)

GRASS	623
FORBS	580
SHRUBS	810
TOTAL	2013

SUGGESTED GRAZING CAPACITY
2.0 HA/AUM

EASTERN ECODISTRICTS (SMOKY LAKE, ST PAUL)

Photo 5. Aw/Hazelnut-Rose community is very common in the eastern ecodistricts of the Dry Mixedwood subregion.

DMC11. Aw/Rose-Low bush cranberry

(Populus tremuloides/Rosa acicularis-Viburnum edule)

n=11 This community type occurs mainly along the Dry Mixedwood and Central Mixedwood subregion boundary in east-central Alberta. Stands occur on moderately moist, moderately well-drained and medium-textured Orthic Gray Luvisols that have developed in slightly stony till deposits. Slopes are gentle with variable aspects. This type may be expected farther south in the east-central part of the subregion on sites that are cooler and moister than the average. Like other deciduous community types described in the Central Mixedwood, this community type produces a moderate amount of forage for domestic livestock and would be rated as secondary range.

PLANT COMPOSITION CANOPY COVER(%)

	MEAN	RANGE	CONST.
TREES			
TREMBLING ASPEN *(Populus tremuloides)*	52	25-65	100
SHRUBS			
LOW BUSH CRANBERRY *(Viburnum edule)*	13	2-30	100
PRICKLY ROSE *(Rosa acicularis)*	14	1-15	100
FORBS			
DEWBERRY OR RUNNING RASPBERRY *(Rubus pubescens)*	8	4-20	100
BUNCHBERRY *(Cornus canadensis)*	8	2-15	100
WILD STRAWBERRY *(Fragaria virginiana)*	3	0-10	91
FIREWEED *(Epilobium angustifolium)*	7	0-15	91
TALL LUNGWORT *(Mertensia paniculata)*	2	0-5	91
WILD LILY-OF-THE-VALLEY *(Maianthemum canadense)*	4	1-10	100
GRASSES			
MARSH REED GRASS *(Calamagrostis canadensis)*	10	2-20	100
HAIRY WILDRYE *(Elymus innovatus)*	8	3-30	91

ENVIRONMENTAL VARIABLES

MOISTURE REGIME:
MESIC

NUTRIENT REGIME:
MESOTROPHIC

ELEVATION:
590--648(630) M

PERCENT SLOPE GRADIENT:
0

SOIL DRAINAGE:
MODERATELY WELL

FORAGE PRODUCTION(KG/HA)

GRASS	261
FORBS	418
SHRUBS	163
TOTAL	842 *ESTIMATE

SUGGESTED GRAZING CAPACITY
2.2 HA/AUM

DMC12. Aw/Rose-Blueberry

(Populus tremuloides/ Rosa acicularis-Vaccinium myrtilloides)

n=4 This community type is scattered throughout the Dry Mixedwood subregion on mainly dry, rapidly to well-drained sites. Sandy glaciofuluvial veneers and blankets or rubble clays typically mantle fine-textured till deposits. Soil nutrient levels are judged to be poor (submesotrophic) relative to other vegetation types because soils are slightly to moderately acid and have sandy to stony textures in the upper soil horizons. These stands tend to be relatively open allowing for easy access by livestock, but the dry site conditions and poorer nutrient status limit the amount of regrowth after grazing. If this commlunity type is managed for one rotation a year, it can contribute significantly to the overall carrying capacity of a lease.

PLANT COMPOSITION CANOPY COVER(%)

	MEAN	RANGE	CONST.
TREES			
TREMBLING ASPEN *(Populus tremuloides)*	49	30-45	100
SHRUBS			
PRICKLY ROSE *(Rosa acicularis)*	17	2-20	100
BLUEBERRY *(Vaccinium myrtilloides)*	14	3-40	100
BUFFALOBERRY *(Shepherdia canadensis)*	7	0-25	50
FORBS			
BUNCHBERRY *(Cornus canadensis)*	15	1-35	100
WILD STRAWBERRY *(Fragaria virginiana)*	3	0-5	75
BEARBERRY *(Arctostaphylos uva-ursi)*	7	1-20	100
DEWBERRY *(Rubus pubescens)*	2	0-4	75
WILD LILY-OF-THE-VALLEY (*Maianthemum canadense*)	3	4-15	100
YELLOW PEAVINE (*Lathyrus ochroleucus*)	3	1-5	100
GRASSES			
MARSH REED GRASS *(Calamagrostis canadensis)*	4	2-10	75
HAIRY WILDRYE *(Elymus innovatus)*	10	0-25	75
MOUNTAIN RICEGRASS (*Oryzopsis asperifolia*)	8	2-20	75

ENVIRONMENTAL VARIABLES

MOISTURE REGIME:
SUBMESIC

NUTRIENT REGIME:
SUBMESOTROPHIC

ELEVATION:
556-646(587) M

PERCENT SLOPE GRADIENT:
1-5(3)%

SOIL DRAINAGE:
RAPIDLY TO WELL

FORAGE PRODUCTION(KG/HA)

GRASS	303
FORBS	177
SHRUBS	193
TOTAL	673 *ESTIMATE

SUGGESTED GRAZING CAPACITY
2.7 HA/AUM

DMC13. Aw/Beaked hazelnut-Rose/Wild peavine

(Populus tremuloides/Corylus cornuta-Rosa acicularis/Lathyrus ochroleucus)

n=13 This community occurs mainly in the south half of the Dry Mixedwood subregion in east-central Alberta. Typical sites are judged to be moderately well-drained and moderately moist. The trend toward warmer, drier conditions with more southerly locations in the Dry Mixedwood may explain the dominance of this type over the Aw/Beaked hazelnut-Rose/Wild sarsaparilla community type in this part of the subregion. The presence of high peavine cover appears to be indicative of a boreal-parkland climatic transition. The total forage production of this community type is moderate, but the majority of the production is coming from hazelnut, which is largely unpalatable to livestock at proper stocking levels. The high cover of hazelnut also restricts access to livestock and limits the forage availability. This community type would be rated as secondary range.

PLANT COMPOSITION CANOPY COVER(%)

	MEAN	RANGE	CONST.
TREES			
TREMBLING ASPEN *(Populus tremuloides)*	53	30-55	100
SHRUBS			
PRICKLY ROSE *(Rosa acicularis)*	21	3-35	100
LOW BUSH CRANBERRY *(Viburnum edule)*	2	0-6	69
HAZELNUT *(Corylus cornuta)*	35	5-75	100
FORBS			
BUNCHBERRY *(Cornus canadensis)*	7	0-20	85
WILD SARSAPARILLA *(Aralia nudicaulis)*	11	3-20	100
PURPLE PEAVINE *(Lathyrus venosus)*	11	2-30	100
DEWBERRY *(Rubus pubescens)*	7	1-15	100
WILD LILY-OF-THE-VALLEY *(Maianthemum canadense)*	5	0-10	92
YELLOW PEAVINE *(Lathyrus ochroleucus)*	7	2-16	100
GRASSES			
MARSH REED GRASS *(Calamagrostis canadensis)*	4	1-10	100
HAIRY WILDRYE *(Elymus innovatus)*	3	1-7	100

ENVIRONMENTAL VARIABLES

MOISTURE REGIME:
MESIC

NUTRIENT REGIME:
MESOTROPHIC TO PERMESOTROPHIC

ELEVATION:
570-690(630) M

SOIL DRAINAGE:
MODERATELY WELL

FORAGE PRODUCTION(KG/HA)

GRASS	57
FORBS	447
SHRUBS	779
TOTAL	1283 *ESTIMATE

SUGGESTED GRAZING CAPACITY
1.4 HA/AUM

DMC14. Aw/Beaked hazelnut-Rose/Wild sarsaparilla

(Populus tremuloides/Corylus cornuta-Rosa acicularis/Aralia nudicaulis)

n=21 This community type is one of the most common types found within the Dry Mixedwood subregion of east-central Alberta. It occurs mainly on moderately well-drained, fine-textured and gently sloping till deposits. Beaked hazelnut is the dominant shrub in most stands and accounted for well over half of the total shrub cover. The total forage production of this community type is moderate, but the majority of the production is coming from hazelnut, which is largely unpalatable to livestock at proper stocking levels. The high cover of hazelnut also restricts access to livestock and limits the forage availability. This community type would be rated as secondary range.

PLANT COMPOSITION CANOPY COVER(%)

	MEAN	RANGE	CONST.
TREES			
TREMBLING ASPEN			
(Populus tremuloides)	50	15-65	100
SHRUBS			
PRICKLY ROSE			
(Rosa acicularis)	14	5-31	100
HAZELNUT			
(Corylus cornuta)	45	20-70	100
FORBS			
BUNCHBERRY			
(Cornus canadensis)	8	0-10	95
WILD SARSAPARILLA			
(Aralia nudicaulis)	13	0-40	95
DEWBERRY			
(Rubus pubescens)	5	0-15	91
WILD LILY-OF-THE-VALLEY			
(Maianthemum canadense)	4	1-10	100
YELLOW PEAVINE			
(Lathyrus ochroleucus)	6	3-15	100
GRASSES			
MARSH REED GRASS			
(Calamagrostis canadensis)	3	0-15	91
HAIRY WILDRYE			
(Elymus innovatus)	2	0-7	76

ENVIRONMENTAL VARIABLES

MOISTURE REGIME:
MESIC

NUTRIENT REGIME:
MESOTROPHIC

ELEVATION:
556-709(624) M

SOIL DRAINAGE:
MODERATELY WELL

FORAGE PRODUCTION(KG/HA)

GRASS	57
FORBS	447
SHRUBS	779
TOTAL	1283

SUGGESTED GRAZING CAPACITY
1.4 HA/AUM

DMC15. Aw/Rose/Forb/Marsh reedgrass

(Populus tremuloides/Rosa acicularis/Forb/Calamagrostis canadensis)

n=25 This community type is the most common and widespread aspen forest type found in the Dry Mixedwood subregion of east-central Alberta. Typical parent materials are moderately well to imperfectly drained, fine-textured and gently sloping till deposits in which Orthic and Gleyed Gray Luvisols have developed. This type is difficult to distinguish from the Aw/Rose-Low bush cranberry type towards the northern limit of the subregion. In the latter type the major distinguishing characteristic is the infrequent occurrence of beaked hazelnut. This community type is fairly productive and produces a moderate amount of palatable forage for domestic livestock. Consequently, this community type would be rated as secondary range.

PLANT COMPOSITION CANOPY COVER(%)

	MEAN	RANGE	CONST.
TREES			
TREMBLING ASPEN			
(Populus tremuloides)	51	10-55	100
SHRUBS			
PRICKLY ROSE			
(Rosa acicularis)	22	7-45	100
HAZELNUT			
(Corylus cornuta)	4	0-12	76
WILD RED RASPBERRY			
(Rubus idaeus)	6	0-40	84
FORBS			
BUNCHBERRY			
(Cornus canadensis)	10	3-25	96
FIREWEED			
(Epilobium angustifolium)	7	0-30	72
DEWBERRY			
(Rubus pubescens)	7	2-20	100
WILD LILY-OF-THE-VALLEY			
(Maianthemum canadense)	3	1-10	92
YELLOW PEAVINE			
(Lathyrus ochroleucus)	6	2-15	100
GRASSES			
MARSH REED GRASS			
(Calamagrostis canadensis)	14	1-65	
100HAIRY WILDRYE			
(Elymus innovatus)	4	0-25	64

ENVIRONMENTAL VARIABLES

MOISTURE REGIME:
MESIC TO SUBHYGRIC

NUTRIENT REGIME:
MESOTROPHIC TO PERMESOTROPHIC

ELEVATION:
556-693(617) M

SOIL DRAINAGE:
MODERATELY WELL TO IMPERFECTLY

FORAGE PRODUCTION(KG/HA)

GRASS	130
FORBS	513
SHRUBS	467
TOTAL	1110

SUGGESTED GRAZING CAPACITY
1.6 HA/AUM

DMC16. Pb-Aw/Rose

(Populus balsamifera-Populus tremuloides)

n=7 This community type apparently occurs infrequently in all portions of the Dry Mixedwood subregion. This type may be expected in association with small depressions between till knobs, along stream channels or on valley sides where soil moisture and nutrient status are relatively high compared to the surrounding topography. Further sampling is necessary to determine whether this expectation is justified.

PLANT COMPOSITION CANOPY COVER(%)

	MEAN	RANGE	CONST.
TREES			
TREMBLING ASPEN *(Populus tremuloides)*	8	0-20	67
BALSAM POPLAR *(Populus balsamifera)*	23	10-35	100
SHRUBS			
PRICKLY ROSE *(Rosa acicularis)*	5	1-10	100
LOW BUSH CRANBERRY *(Viburnum edule)*	1	0-2	33
BRACTED HONEYSUCKLE *(Lonicera involcrata)*	1	0-6	33
RASPBERRY *(Rubus ideaus)*	7	0-29	83
FORBS			
BUNCHBERRY *(Cornus canadensis)*	3	0-7	67
WILD SARSAPARILLA *(Aralia nudicaulis)*	6	0-37	33
YELLOW PEAVINE *(Lathyrus ochroleucus)*	2	1-5	100
WILD LILY-OF-THE-VALLEY *(Maianthemum canadense)*	1	0-2	67
WINTERGREEN *(Pyrola asarifolia)*	1	0-2	83
GRASSES			
MARSH REED GRASS *(Calamagrostis canadensis)*	1	0-3	50
HAIRY WILDRYE *(Elymus innovatus)*	1	0-1	67

ENVIRONMENTAL VARIABLES

MOISTURE REGIME:
SUBHYGRIC

NUTRIENT REGIME:
PERMESOTROPHIC

ELEVATION:
625 M

SOIL DRAINAGE:
POORLY

FORAGE PRODUCTION(KG/HA)

GRASS	100(0-250)
FORBS	338(100-750)
SHRUBS	355(20-750)
TOTAL	793(500-920)

SUGGESTED GRAZING CAPACITY
2.4 HA/AUM

DRY MIXEDWOOD SUBREGION

CONIFEROUS AND MIXEDWOOD FOREST COMMUNITIES

Photo 6. Pj/Bearberry community type in the Dry Mixedwood subregion

DM-CONIFEROUS AND MIXEDWOOD FORESTS

The mixedwood and coniferous community types described in this guide represent four ecosites as described by Beckingham and Archibald (1996). On sites with subxeric moisture and poor nutrient regimes, coarse textured, sandy soils open stands of jack pine generally dominate (Pj/Alder, Pj/Bearberry). These community types commonly have a carpet of lichens covering the forest floor and a thin organic layer typically less than 5 cm thick (Beckingham and Archibald 1996).

On slightly moister sites with submesic moisture and medium nutrient regimes aspen grows in conjunction with jack pine to form the Pj-Aw/Bearberry community type. On slightly moister sites Aw-Sw/Bearberry and Sw/Buffaloberry/Bearberry communities are found. The soils of these community types continue to be coarse-textured but the moisture and nutrient conditions are more favourable to the growth of aspen and spruce.

The mesic/medium sites are generally dominated by white spruce (Sw/Moss) and mixedwood communities of aspen and spruce (Aw-Sw/Rose/Marsh reedgrass, Aw-Pb-Sw/Willow/Wild sarsparilla, Sw-Pb-Aw/Rose/Twinflower). These communities represent the reference ecosite for the Boreal Mixedwood subregion (Beckingham and Archibald 1996). Generally, these sites have moderately fine to fine-textured till or glaciolacustrine parent materials. Pioneer deciduous species (aspen, balsam poplar and birch) are replaced with white spruce and balsam fir as these sites develop successionally. With succession shade tolerant plants take over the herbaceous layer as conifers dominate the canopy. These shade tolerant species are unproductive and often unpalatable for domestic livestock. Forage productivity declines from 2.3 ha/AUM in a deciduous community to 2.3-8.6 ha/AUM in a mixedwood community to less than 10 ha/AUM in a conifer community.

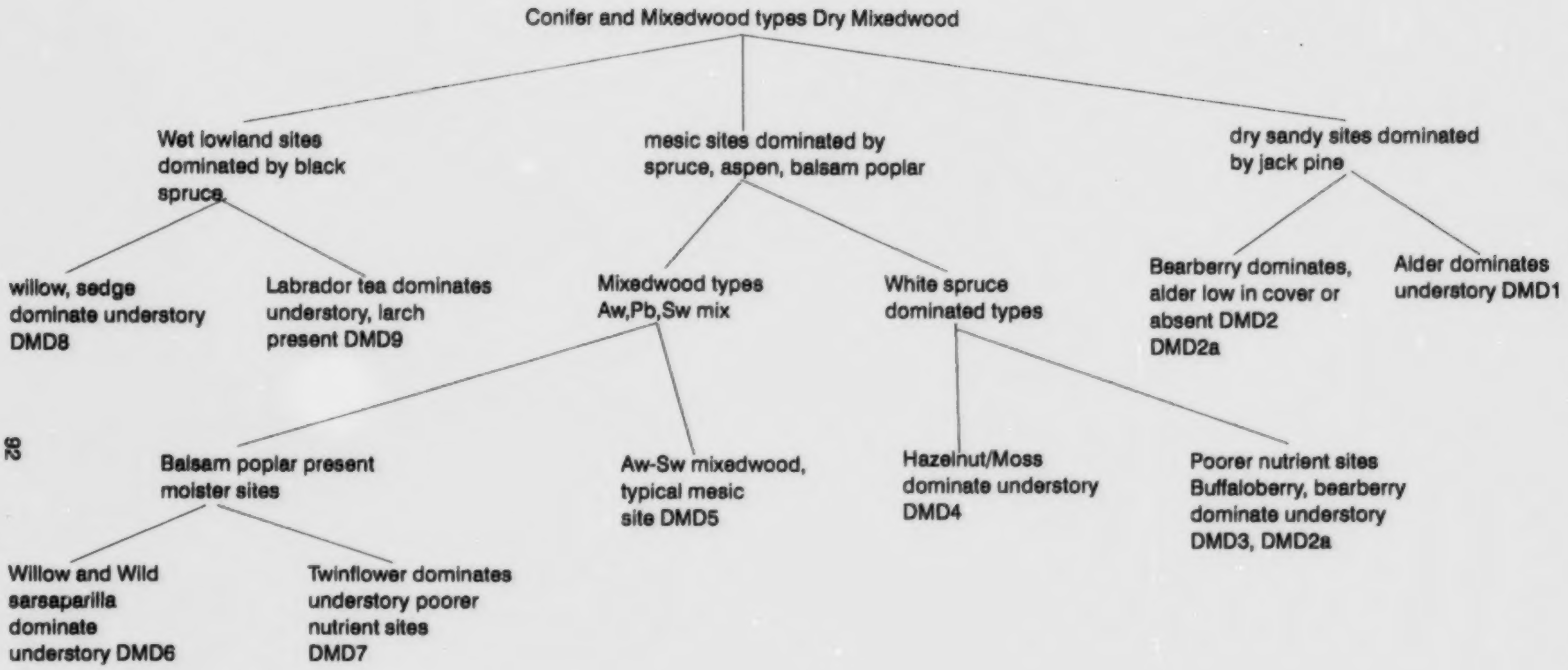
Black spruce and larch communites generally dominate on wetter sites with subhygric to subhydric moisture regimes and poor to medium nutrient regimes to form the Sb/Willow/Moss and Sb-Lt/Labrador tea/Moss community types. Larch is more tolerant of excessive moisture and is indicative of an enriched nutrient status, while black spruce is typical in areas of stagnating ground water with poor nutrient status (Hay et al. 1985). Generally, these community types are considered non-use for domestic livestock.

Beckingham and Archibald (1996), provide a good description on how the conifer and mixedwood community types are arranged in the landscape.

Table 5. Production (kg/ha) and grazing capacity (ha/AUM) for ecosite phase, conifer and mixedwood communities of the Dry Mixedwood subregion

Community number	Community type	Productivity (kg/ha)				Ecosite	Grazing capacity (ha/AUM)
		Grass	Forb	Shrub	Total		
Ecosite phase	**a lichen**	**160**	**175**	**191**	**526**		**Non-use**
DMD1	Pj/Alder	160	175	191	526	subxeric/poor	Non use
Ecosite phase	**b1 blueberry Pj-Aw**	**237**	**146**	**488**	**871**		**Non-use**
DMD2	Pj-Aw/Bearberry	237	146	488	871	submesic/medium	Non use
Ecosite phase	**b3 blueberry Aw-Sw**	**100**	**50**	**500**	**650**		**Non-use**
DMD2a	Aw-Sw/Bearberry	100	50	500	650	submesic/medium	Non-use
Ecosite phase	**b4 blueberry Sw**	**18**	**238**	**848**	**1104**		**Non-use**
DMD3	Sw/Buffaloberry/Bearberry	18	238	848	1104	mesic/medium	Non use
Ecosite phase	**d2 low-bush cranberry Aw-Sw**	**468**	**534**	**440**	**1442**		**1.3**
DMD5	Aw-Sw/Rose/Marsh reedgrass	468	534	440	1442	mesic/medium	1.3

Ecosite phase	**d3 low-bush cranberry Sw**	**8**	**122**	**91**	**220**		**Non-use**
DMD4	Sw/Beaked hazelnut/Moss	0	132	74	206	mesic/medium	Non use
DMD7	Sw-Pb-Aw/Rose/Twinflower	16	112	108	236	mesic/medium	Non use
Ecosite phase	**e2 dogwood Pb-Sw**	**20**	**400**	**56**	**476**		**Non-use**
DMD6	Aw-Pb-Sw/Willow/Wild sarsaparilla	20	400	56	476	subhygric/rich	Non use
Ecosite phase	**i1 treed bog**	**10**	**40**	**50**	**100**		**Non-use**
DMD9	Sb-Lt/Labrador tea/Moss	10	40	50	100	subhydric/very poor	Non-use
Ecosite phase	**j1 treed poor fen**	**401**	**89**	**242**	**732**		**9.9**
DMD8	Sb/Wllow/Moss	401	89	242	732	subhydric/medium	9.9


Conifer and Mixedwood types Dry Mixedwood
Wet lowland sites dominated by black spruce.
mesic sites dominated by spruce, aspen, balsam poplar
dry sandy sites dominated by jack pine
willow, sedge dominate understory DMD8
Labrador tea dominates understory, larch present DMD9
Mixedwood types Aw,Pb,Sw mix
White spruce dominated types
Bearberry dominates, alder low in cover or absent DMD2 DMD2a
Alder dominates understory DMD1
Balsam poplar present moister sites
Aw-Sw mixedwood, typical mesic site DMD5
Hazelnut/Moss dominate understory DMD4
Poorer nutrient sites Buffaloberry, bearberry dominate understory DMD3, DMD2a
Willow and Wild sarsaparilla dominate understory DMD6
Twinflower dominates understory poorer nutrient sites DMD7

Key to conifer and mixedwood communities in the Dry Mixedwood subregion

DMD1. Pj/Alder

(Pinus banksiana/ Alnus crispa)

n=2 This community type is found on dry, rapidly drained, sandy soils with a poor nutrient status. Consequently, production is quite low. Cattle will utilize these areas due to the easy access, however overutilization will quickly deplete the area of forage. This community type would be rated as secondary or non-use range.

PERCENT COMPOSITION CANOPY COVER(%)

	MEAN	RANGE	CONST.
TREES			
JACK PINE *(Pinus banksiana)*	43	35-50	100
SHRUBS			
GREEN ALDER *(Alnus crispa)*	33	30-35	100
PRICKLY ROSE *(Rosa acicularis)*	9	7-10	100
SASKATOON *(Amelanchier alnifolia)*	5	1-8	100
FORBS			
TWIN-FLOWER *(Linnaea borealis)*	6	0-12	50
BEARBERRY *(Arctostaphylos uva-ursi)*	9	0-18	50
YELLOW PEAVINE *(Lathyrus ochroleucus)*	4	0-8	50
STRAWBERRY *Fragaria virginiana)*	2	1-2	100
GRASSES			
SEDGES *(Carex spp.)*	6	1-11	100
HAIRY WILD RYE *(Elymus innovatus)*	3	1-4	100
NORTHERN RICEGRASS *(Oryzopsis pungens)*	6	1-10	100

ENVIRONMENTAL VARIABLES

MOISTURE REGIME:
SUBXERIC

NUTRIENT REGIME
POOR

ELEVATION:
606 M

SOIL DRAINAGE:
RAPIDLY

PERCENT SLOPE GRADIENT:
2 - 8%

FORAGE PRODUCTION(KG/HA)

GRASS	160
FORBS	175
SHRUBS	191

SUGGESTED GRAZING CAPACITY
NON-USE

DMD2. Pj-Aw/Bearberry

(Pinus banksiana/Arctostaphylos uva-ursi)

n=4 This community represents a jack pine forest with a secondary canopy of aspen. It is very similar to the Pj/Alder community type, but it is found on slightly moister soils with better nutrient regimes. These conditions favour the growth of aspen. Like the previous community, cattle will utilize these areas due to the easy access, however over-utilization will quickly deplete the forage supply. This community type would be rated as secondary range and should be grazed on a single rotation per year.

PLANT COMPOSITION CANOPY COVER(%)

	MEAN	RANGE	CONST.
TREES			
JACK PINE			
(Pinus banksiana)	45	30-45	100
ASPEN			
(*Populus tremuloides*)	13	10-20	100
SHRUBS			
SASKATOON			
(Amelanchier alnifolia)	9	1-15	100
PRICKLY ROSE			
(Rosa acicularis)	6	4-8	100
BLUEBERRY			
(Vaccinium myrtilloides)	7	0-2	75
FORBS			
BEARBERRY			
(Arctostaphylos uva-ursi)	15	7-64	100
NORTHERN BEDSTRAW			
(Galium boreale)	2	1-3	100
WILD LILY-OF-THE-VALLEY			
(Maianthemum canadense)	2	1-5	100
CREAM-COLOURED VETCHLING			
(Lathyrus ochroleucus)	7	3-7	100
GRASSES			
HAIRY WILD RYE			
(Elymus innovatus)	10	2-16	100
MOSSES			
MOSS SPP.	2	0-7	25

ENVIRONMENTAL VARIABLES

MOISTURE REGIME:
SUBMESIC

NUTRIENT REGIME:
SUBMESOTROPHIC

ELEVATION:
606 M

SOIL DRAINAGE:
RAPIDLY

PERCENT SLOPE GRADIENT:
0 - 5

FORAGE PRODUCTION(KG/HA)

GRASS	126
FORBS	218
SHRUBS	98
TOTAL	442

SUGGESTED GRAZING CAPACITY
NON-USE

DMD2a. Aw-Sw/Bearberry

(Populus tremuloides-Picea glauca/Arctostaphylos uva-ursi)

n=1 This community type was found on a small, sandy hillcrest with a high water table. It is similar to the Sw/Buffaloberry/Bearberry (DMD3) community type, but this community is successionally younger. The majority of productivity is from bearberry which is unpalatable to livestock. Consequently, this community type would be considered non-use range.

PLANT COMPOSITION CANOPY COVER(%)

	MEAN	RANGE	CONST.
TREES			
WHITE SPRUCE *(Picea glauca)*	15	-	100
ASPEN *(Populus tremuloides)*	15	-	100
SHRUBS			
SASKATOON *(Amelanchier alnifolia)*	1	-	100
PRICKLY ROSE *(Rosa acicularis)*	2	-	100
BLUEBERRY *(Vaccinium myrtilloides)*	2	-	100
FORBS			
BEARBERRY *(Arctostaphylos uva-ursi)*	37	-	100
STRAWBERRY *(Fragaria virginiana)*	1	-	100
YELLOW PEAVINE *(Lathyrus ochroleucus)*	4	-	100
WILD-LILY-OF-THE VALLEY *(Maianthemum canadense)*	3	-	100
GRASSES			
HAIRY WILDRYE *(Elymus innovatus)*	3	-	100
NORTHERN RICEGRASS *(Oryzopsis pungens)*	1	-	100

ENVIRONMENTAL VARIABLES

MOISTURE REGIME:
SUBMESIC

NUTRIENT REGIME:
SUBMESOTROPHIC

ELEVATION:
606 M

SOIL DRAINAGE:
WELL

PERCENT SLOPE GRADIENT:
0 - 4

FORAGE PRODUCTION(KG/HA)

GRASS	100
FORBS	50
SHRUBS	500
TOTAL	650

SUGGESTED GRAZING CAPACITY
NON-USE

DMD3. Sw/Buffaloberry/Bearberry

(Picea glauca/ Shepherdia canadensis/Arctostaphylos uva-ursi)

n=1 This community type represents a very open spruce forest. It was found on a small, sandy hillcrest with a high water table. The site may have a high pH and be somewhat nutrient poor as indicated by the abundance of buffaloberry (Beckingham 1993). The majority of productivity is from buffaloberry which is unpalatable to livestock. Consequently, this community type would be considered non-use range.

PLANT COMPOSITION CANOPY COVER(%)

	MEAN	RANGE	CONST.
TREES			
WHITE SPRUCE *(Picea glauca)*	10	-	100
SHRUBS			
BUFFALOBERRY *(Shepherdia canadensis)*	48	-	100
PRICKLY ROSE *(Rosa acicularis)*	12	-	100
BLUEBERRY *(Vaccinium myrtilloides)*	7	-	100
SNOWBERRY *(Symphoricarpos occidentalis)*	5	-	100
FORBS			
BEARBERRY *(Arctostaphylos uva-ursi)*	19	-	100
TWINFLOWER *(Linnaea borealis)*	12	-	100
YELLOW PEAVINE *(Lathyrus ochroleucus)*	8	-	100
TOADFLAX *(Comandra umbellata)*	2	-	100
GRASSES			
MOUNTAIN RICEGRASS *(Oryzopsis asperifolia)*	8	-	100
NORTHERN RICEGRASS *(Oryzopsis pungens)*	6	-	100
SEDGE *(Carex spp.)*	5	-	100

ENVIRONMENTAL VARIABLES

MOISTURE REGIME:
SUBMESIC

NUTRIENT REGIME:
SUBMESOTROPHIC

ELEVATION:
606 M

SOIL DRAINAGE:
WELL

PERCENT SLOPE GRADIENT:
0 - 4

FORAGE PRODUCTION(KG/HA)

GRASS	18
FORBS	238
SHRUBS	848
TOTAL	1104

SUGGESTED GRAZING CAPACITY
NON-USE

DMD4. Sw/Beaked hazelnut/Moss

(Picea glauca/Corylus cornuta/ Moss*)*

n=1 This is a mature white spruce forest which represents the climax or near climax vegetation for the area. The northerly aspect of this community type has probably protected the site from past disturbance by fires and allowed the community to undergo succession. The high canopy of spruce limits the light reaching the forest floor, limiting the growth of grasses and forbs. As a result, the forage productivity of this community type is very low. This community would be considered non-use.

PLANT COMPOSITION CANOPY COVER(%)

	MEAN	RANGE	CONST.
TREES			
WHITE SPRUCE *(Picea glauca)*	60	-	100
PAPER BIRCH *(Betula papyrifera)*	5	-	100
SHRUBS			
HAZELNUT *(Corylus cornuta)*	12	-	100
BOG CRANBERRY *(Vaccinium vitis-idaea)*	6	-	100
PRICKLY ROSE *(Rosa acicularis)*	6	-	100
FORBS			
BEARBERRY *(Arctostapylos uva-ursi)*	2	-	100
TWINFLOWER *(Linnaea borealis)*	8	-	100
BASTARD TOADFLAX *(Geocaulon lividum)*	2	-	100
STRAWBERRY *(Fragaria virginiana)*	2	-	100
MOSSES			
MOSS SPP.	73	-	100

ENVIRONMENTAL VARIABLES

MOISTURE REGIME:
MESIC

NUTRIENT REGIME:
MESOTROPHIC

ELEVATION:
606 M

SOIL DRAINAGE:
WELL

PERCENT SLOPE GRADIENT:
5%

ASPECT:
NORTHERLY

FORAGE PRODUCTION(KG/HA)

GRASS	0
FORBS	132
SHRUBS	74
TOTAL	206

SUGGESTED GRAZING CAPACITY
NON-USE

DMD5. Aw-Sw/Rose/Marsh reedgrass

(Populus tremuloides-Picea glauca/Rosa acicularis/Calamagrostis canadensis)

n=1 This community represents a highly productive aspen community that is succeeding to white spruce. The presence of tall forbs wild sarsaparilla and fireweed indicate a high nutrient regime and a light grazing regime. At present this community type has a good level of forage for domestic livestock.

PLANT COMPOSITION CANOPY COVER(%)

	MEAN	RANGE	CONST.
TREES			
WHITE SPRUCE *(Picea glauca)*	30	-	100
POPULUS TREMULOIDES *(Populus tremuloides)*	35	-	100
SHRUBS			
PRICKLY ROSE *(Rosa acicularis)*	23	-	100
WILD RED RASPBERRY *(Rubus idaeus)*	15	-	100
BRISTLY BLACK CURRANT *(Ribes lacustre)*	10	-	100
LOW BUSH CRANBERRY *(Viburnum edule)*	8	-	100
FORBS			
BUNCHBERRY *(Cornus stolonifera)*	8	-	100
FIELD HORSETAIL *(Equisetum arvense)*	4	-	100
TALL LUNGWORT *(Mertensia paniculata)*	7	-	100
WILD SARSAPARILLA *(Aralia nudicaulis)*	5	-	100
DEWBERRY *(Rubus pubscens)*	5	-	100
FIREWEED *(Epilobium angustifolium)*	3	-	100
GRASSES			
MARSH REEDGRASS *(Calamagrostis canadensis)*	19	-	100

ENVIRONMENTAL VARIABLES

MOISTURE REGIME:
SUBHYGRIC

NUTRIENT REGIME:
PERMESOTROPHIC

ELEVATION:
455 M

SOIL DRAINAGE:
MODERATELY WELL

PERCENT SLOPE GRADIENT:
1%

FORAGE PRODUCTION(KG/HA)

GRASS	468
FORBS	534
SHRUBS	440
TOTAL	1442

SUGGESTED GRAZING CAPACITY
1.3 HA/AUM

DMD6. Aw-Pb-Sw/Willow/Wild sarsaparilla

(Populus tremuloides-Populus balsamifera-Picea glauca/Salix spp./Aralia nudicaulis)

n=1 This community type has similar moisture and nutrient conditions to the Aw-Pb and Pb/Red osier dogwood-Rose community types, but this community is successionally more advanced. The abundance of tall shrubs limits the amount of light reaching the forest floor, which limits forage production. As a result, this community type would be considered non-use or marginal secondary range for domestic livestock.

PLANT COMPOSITION CANOPY COVER(%)

	MEAN	RANGE	CONST.
TREES			
ASPEN *(Populus tremuloides)*	35	-	100
WHITE SPRUCE *(Picea glauca)*	15	-	100
PAPER BIRCH *(Betula papyrifera)*	10	-	100
BALSAM POPLAR *(Populus balsamifera)*	25	-	100
SHRUBS			
GREEN ALDER *(Alnus crispa)*	45	-	100
WILLOW *(Salix spp.)*	25	-	100
LOW BUSH CRANBERRY *(Viburnum edule)*	10	-	100
PRICKLY ROSE *(Rosa acicularis)*	10	-	100
FORBS			
WILD SARSAPARILLA *(Aralia nudicaulis)*	13	-	100
BISHOP'S CAP *(Mitella nuda)*	11	-	100
CANADA VIOLET *(Viola canadensis)*	11	-	100
LADY FERN *(Athyrium filix-femina)*	5	-	100
DEWBERRY *(Rubus pubescens)*	4	-	100

ENVIRONMENTAL VARIABLES

MOISTURE REGIME:
SUBHYGRIC

NUTRIENT REGIME:
PERMESOTROPHIC

ELEVATION:
606 M

SOIL DRAINAGE:
MODERATELY WELL

PERCENT SLOPE GRADIENT:
20%

ASPECT:
EAST

FORAGE PRODUCTION(KG/HA)

GRASS	20
FORBS	400
SHRUBS	56
TOTAL	476

SUGGESTED GRAZING CAPACITY
NON-USE

DMD7. Sw-Pb-Aw/Rose/Twinflower

(Picea glauca-Populus balsamifera-Populus tremuloides/ Rosa acicularis/ Linnaea borealis)

n=1 This community is similar to the previous Aw-Pb-Sw/Willow/Wild sarsaparilla community type but is found on slightly drier sites with a poorer nutrient regime. Succession of this community type will likely be to a White spruce /Moss dominated community type. The thick overstory limits the growth of shrubs, forbs and grass. Consequently, there is little forage for domestic livestock. This community type would be considered non-use.

PLANT COMPOSITION CANOPY COVER(%)

	MEAN	RANGE	COSNT.
TREES			
WHITE SPRUCE *(Picea glauca)*	35	-	100
TREMBLING ASPEN *(Populus tremuloides)*	20	-	100
BALSAM POPLAR *(Populus balsamifera)*	30	-	100
SHRUBS			
SNOWBERRY *(Symphoricarpos occidentalis)*	13	-	100
PRICKLY ROSE *(Rosa acicularis)*	18	-	100
BRACTED HONEYSUCKLE *(Lonicera involcrata)*	5	-	100
BUFFALO-BERRY *(Shepherdia canadensis)*	1	-	100
FORBS			
TWIN-FLOWER *(Linnaea borealis)*	22	-	100
BUNCHBERRY *(Cornus canadensis)*	8	-	100
WINTERGREEN *(Pyrola asarifolia)*	6	-	100
DEWBERRY *(Rubus pubscens)*	6	-	100
BISHOP'S CAP *(Mitella nuda)*	3	-	100
MOSSES			
MOSS SPP.	71	-	100

ENVIRONMENTAL VARIABLES

MOISTURE REGIME:
MESIC TO SUBHYGRIC
NUTRIENT REGIME:
MESOTROPHIC
ELEVATION:
606 M
SOIL DRAINAGE:
WELL TO MODERATELY WELL

FORAGE PRODUCTION(KG/HA)

GRASS	16
FORBS	112
SHRUBS	108
TOTAL	236

SUGGESTED GRAZING CAPACITY
NON-USE

DMD8. Sb/Willow/Moss

(Picea mariana/Salix spp./Moss)

n=2 This community type is part of the poor fen ecosite (Beckingham and Archibald 1996) because it has an intermediate nutrient regime between the bog and rich fen ecosites. Drainage on this community type is poor to very poor, but has some movement of water through the site. This community type has a well developed shrub layer and the grass layer consists mainly of marsh reedgrass and sedge species. The productivity of this type is moderate, but the high water table limits access to domestic livestock. This community would be rated as non-use.

PLANT COMPOSITION CANOPY COVER(%)

	MEAN	RANGE	CONST.
TREES			
BLACK SPRUCE			
(Picea mariana)	15	14-16	100
SHRUBS			
WILLOW SPP.			
(Salix spp.)	35	20-50	100
BOG BIRCH			
(Betula glandulosa)	17	8-25	100
FORBS			
STEMLESS RASPBERRY			
(Rubus arctica)	4	2-5	100
HORSETAIL			
(Equisetum arvense)	18	15-20	100
BISHOP'S CAP			
(Mitella nuda)	6	1-10	100
GRASSES			
MARSH REEDGRASS			
(Calamagrostis canadensis)	10	9-11	100
HAIR-LIKE SEDGE			
(Carex capillaris)	8	5-10	100
MOSSES			
MOSS SPP.	99	99-100	100

ENVIRONMENTAL VARIABLES

MOISTURE REGIME:
SUBHYDRIC
NUTRIENT REGIME:
MESOTROPHIC
ELEVATION:
606-697(657) M
SOIL DRAINAGE:
POORLY

FORAGE PRODUCTION(KG/HA)

GRASS	401
FORBS	89
SHRUBS	242
TOTAL	732

SUGGESTED GRAZING CAPACITY
NON-USE

DMD9. Sb-Lt/Labrador tea/Moss

(Picea mariana-Larix laricina/Ledum groenlandicum/Moss)

n=3 This community type is very similar to the previously described community type, but the nutrient status is poorer. This community type appears to be related to the bog ecosite described by Beckingham and Archibald (1996). The bog ecosite commonly has organic soils consisting of slowly decomposing peat moss. This community type is considered non-use for livestock, due to the lack of forage and poor accessibility.

PLANT COMPOSITION CANOPY COVER(%)

	MEAN	RANGE	CONST.
TREES			
LARCH			
(Larix laricina)	10	1-15	100
BLACK SPRUCE			
(Picea mariana)	30	10-60	100
SHRUBS			
WILLOW SPP.			
(Salix spp.)	21	8-35	100
LABRADOR TEA			
(Ledum groenlandicum)	23	10-35	100
BOG BIRCH			
(Betula glandulosa)	24	0-39	100
FORBS			
DWARF BRAMBLE			
(Rubus pedatus)	8	0-25	66
HORSETAIL			
(Equisetum arvense)	21	0-45	66
DWARF SCOURING RUSH			
(Equisetum scirpoides)	8	0-25	33
GRASSES			
MARSH REEDGRASS			
(Calamagrostis canadensis)	3	1-4	100
GOLDEN SEDGE			
(Carex aurea)	5	0-15	33
BEAKED SEDGE			
(Carex rostrata)	4	0-7	66
FOWL BLUEGRASS			
(Poa palustris)	1	0-2	33
MOSSES			
MOSS SPP.	95	10-60	100

ENVIRONMENTAL VARIABLES

MOISTURE REGIME:
SUBHYDRIC
NUTRIENT REGIME:
OLIGOTROPHIC

ELEVATION:
576-606 M
SOIL DRAINAGE:
POORLY

FORAGE PRODUCTION(KG/HA)

GRASS	10
FORBS	40
SHRUBS	50
TOTAL	100

SUGGESTED GRAZING CAPACITY
NON-USE

CENTRAL MIXEDWOOD SUBREGION

This subregion is the largest in the province covering over 210,000 km^2 or nearly 32% of the province (Strong and Leggat 1992)(Map 2). Mean annual summer temperatures average 13.5 °C and winter temperatures average -13 °C, which is somewhat colder than the adjacent Dry Mixedwood subregion. Annual precipitation averages 397 mm of precipitation which is wetter than the Dry Mixedwood.

The modal plant communities are vegetated by aspen and balsam poplar with understories composed of a variety of herbs and deciduous shrubs. White spruce and balsam fir are the climatic climax species but are not well represented because of the frequent occurrence of fire. On dry, well drained, coarse-textured soils jack pine dominates and the poorly drained sites are dominated by black spruce, willows and sedge species. These reference communities are very similar to the Dry Mixedwood subregion, but the drier conditions of the Dry Mixedwood favours the formation of a number of native grassland communities, which are not found in the Central Mixedwood. Table 6 outlines the ecosites, ecosite phases and range plant community types in the Central Mixedwood subregion. There are a number of new ecosites and ecosite phases which are not found in the guide "Ecosites of Northern Alberta" (Beckingham and Archibald 1996) and they are outlined here. The new ecosite includes (aa) grass/shrubland and the new ecosite phases include (aa1) plains wormwood, (d4)shrubland, and (e4) shrubland (Table 6). The "Grazing succession" or "Harvesting and Fire succession" categories (Table 1and 6) outline the successional sequence the community type will undergo with increased grazing pressure or with harvesting or fire disturbance. There are a number of ecosite phase tables which summarize these successional communities. These include (d1) grazed Aw, (d1) burned Aw, (d3) burned Sw and (k2) grazed willow.

The 36 range plant communities described in the Central Mixedwood subregion are arranged into 4 categories. These include:

Central Mixedwood subregion

CMA. Native grass and shrubland	12 types
CMB. Tame grasslands	7 types
CMC. Deciduous community types	17 types
CMD. Mixedwood and Conifer community types	10 types

The dominant plant species, canopy cover, environmental conditions, forage production and grazing capacity (when available) are outlined for each community type.

Table 6. Ecosites, ecosite phases and forested and range plant community types for the Central Mixedwood subregion (adapted from Beckingham and Archibald 1996).

Ecosite	Ecosite Phase	Forested Plant Community Type	Range Plant Community Type	Grazing succession	Harvesting and Fire succession
aa grass/shrubland (xeric/poor)	aa1 plains wormwood		CMA5. Plains wormwood/Sheep fescue-Sedge	CMA6 Plains wormwood/ Kentucky bluegrass-Sedge	
a lichen (subxeric/poor)	a1 lichen Pj	a1.1 Pj/bearberry/lichen	CMD2 Pj/Bearberry		
		a1.2 Pj/blueberry/lichen			
		a1.3 Pj/green alder/lichen	CMD1 Pj/Alder		
b blueberry (submesic/medium)	b1 blueberry Pj-Aw	b1.1 Pj-Aw/blueberry - bearberry	CMD3 Aw-Pj/Bearberry /Lichen		
		b1.2 Pj-Aw/blueberry - green alder			
		b1.3 Pj-Aw/blueberry - Labrador tea			
	b2 blueberry Aw(Bw)	b2.1 Aw(Bw)/blueberry - bearberry	CMC5 Aw/Blueberry		
		b2.2 Aw(Bw)/blueberry - green alder			
		b2.3 Aw(Bw)/blueberry - Labrador tea			
	b3 blueberry Aw-Sw	b3.1 Aw-Sw/blueberry - bearberry			
		b3.2 Aw-Sw/blueberry - green alder			
		b3.3 Aw-Sw/blueberry - Labrador tea			

Ecosite	Ecosite Phase	Forested Plant Community Type	Range Plant Community Type	Grazing succession	Harvesting and Fire succession
	b4 blueberry Sw-Pj	b4.1 Sw-Pj/blueberry - bearberry			
		b4.2 Sw-Pj/blueberry - green alder			
c Labrador tea - mesic (mesic/poor)	c1 Labrador tea - mesic Pj-Sb	c1.1 Pj-Sb/Labrador tea/feather moss			
		c1.2 Pj-Sb/green alder/feather moss			
		c1.3 Pj-Sb/feather moss			
d low-bush cranberry (mesic/medium)	d1 low-bush cranberry Aw	d1.1 Aw/Canada buffalo-berry	CMC8a Aw/Buffaloberry-Rose		
		d1.2 Aw/saskatoon-pin cherry	CMC9 Aw/Rose-Saskatoon		
		d1.3 Aw/beaked hazelnut	CMC3 Pb-Aw/Beaked hazelnut-Rose		
		d1.4 Aw/green alder	CMC12 Aw/Alder-Willow-Rose		
		d1.5 Aw/low-bush cranberry		CMC10 Aw-Pb/ Rose/ Strawberry	
		d1.6 Aw/rose	CMC8 Aw/Rose/Tall forb	CMC6 Aw/Rose/ Twinflower CMC7 Aw/Rose /Low forb CMC11 Aw/Rose /Clover	
		d1.7 Aw/beaked willow	CMC13 Aw/Willow		CMA11 Willow/ Fireweed
		d1.8 Aw/forb			
		d1.9 Aw/balsam fir			

Ecosite	Ecosite Phase	Forested Plant Community Type	Range Plant Community Type	Grazing succession	Harvesting and Fire succession
	d2 low-bush cranberry Aw-Sw	d2.1 Aw-Sw/Canada buffalo-berry			
		d2.2 Aw-Sw/beaked hazelnut			
		d2.3 Aw-Sw/green alder			
		d2.4 Aw-Sw/low-bush cranberry			
		d2.5 Aw-Sw/rose	CMD7 Aw-Sw/Rose/Low forb		
		d2.6 Aw-Sw/forb			
		d2.8 Aw-Sw/balsam fir/feather moss			
		d2.9 Aw-Sw/feather moss			
	d3 low-bush cranberry Sw	d3.1 Sw/Canada buffalo-berry			
		d3.2 Sw/green alder			
		d3.3 Sw/low-bush cranberry			CMA12 Willow-Spruce/ Kentucky bluegrass
		d3.4 Sw/balsam fir/feather moss	CMD4 Balsam fir-Sw/Moss		
		d3.5 Sw/feather moss	CMD5 Sw/Moss	CMD6 Sw/Creeping red fescue	
	d4 shrubland			CMA4 Snowberry/ Kentucky bluegrass	
e dogwood (subhygric/rich)	e1 dogwood Pb-Aw	e1.1 Pb-Aw/dogwood/fern	CMC14 Aw-Pb/Red osier dogwood-Rose		

Ecosite	Ecosite Phase	Forested Plant Community Type	Range Plant Community Type	Grazing succession	Harvesting and Fire succession
		e1.2 Pb-Aw/bracted honeysuckle/fern	CMC1 Pb/Rose-Alder CMC3a Aw-Pb/Honeysuckle		
		e1.3 Pb-Aw/river alder/fern	CMC2 Pb-Aw/River alder		
	e2 dogwood Pb-Sw	e2.1 Pb-Sw/dogwood/fern			
		e2.2 Pb-Sw/bracted honeysuckle/fern			
		e2.3 Pb-Sw/river alder-green alder/fern			
		e2.4 Pb-Sw/balsam fir/fern			
		e2.5 Pb-Sw/fern/feather moss			
	e3 dogwood Sw	e3.1 Sw/dogwood/fern			
		e3.2 Sw/green alder-river alder/fern			
		e3.3 Sw/balsam fir/fern			
		e3.4 Pb-Sw/fern/feather moss			
	e4 shrubland		CMA10 Willow-Alder/Marsh reedgrass	CMA3 Cow parsnip/ Kentucky bluegrass - Marsh reedgrass	
f horsetail (hygric/rich)	f1 horsetail Pb-Aw	f1.1 Pb-Aw/horsetail	CMC15 Aw/Horsetail-Cow parnsip		
	f2 horsetail Pb-Sw	f2.1 Pb-Sw/horsetail			
	f3 horsetail Sw	f3.1 Sw-horsetail			
		f3.2 Sw/feather moss			

Ecosite	Ecosite Phase	Forested Plant Community Type	Range Plant Community Type	Grazing succession	Harvesting and Fire succession
g Labrador tea - subhygric (subhygric/poor)	g1 Labrador tea - subhygric Sb-Pj	g1.1 Sb-Pj/Labrador tea/feather moss			
		g1.2 Sb-Pj/feather moss			
h Labrador tea/horsetail (hygric/medium)	h1 Labrador tea/horsetail Sw-Sb	h1.1 Sw-Sb/Labrador tea/horsetail			
		h1.2 Sw-Sb/Labrador tea/feather moss	CMD8 Aw-Sw/Labrador tea/Moss		
i bog (subhygric/very poor)	i1 treed bog	i1.1 Sb/Labrador tea/cloudberry/peat moss	CMD9 Sb/Labrador tea/Peat moss		
	i2 shrubby bog	i2.1 Sb/Labrador tea/cloudberry/peat moss			
j poor fen (subhydric/medium)	j1 treed poor fen	j1.1 Sb-Lt/dwarf birch/sedge/peat moss	CMD10 Sb/Bog birch		
	j2 shrubby poor fen	j2.1 Sb-Lt/dwarf birch/sedge/peat moss	CMC4 Bw/Willow		
k rich fen (subhydric/rich)	k1 treed rich fen	k1.1 Lt/dwarf birch/sedge/golden moss			
	k2 shrubby rich fen	k2.1 dwarf birch/sedge/golden moss			
		k2.2 willow/sedge/brown moss	CMA7 Willow/Sedge	CMA8 Willow/ Sedge-Kentucky bluegrass	
		k2.3 willow/marsh reed grass	CMA9. Willow/Marsh reedgrass		
	k3 graminoid rich fen	k3.1 sedge fen	CMA1. Sedge meadow		
		k3.2 marsh reed grass fen	CMA2. Marsh reedgrass meadow		

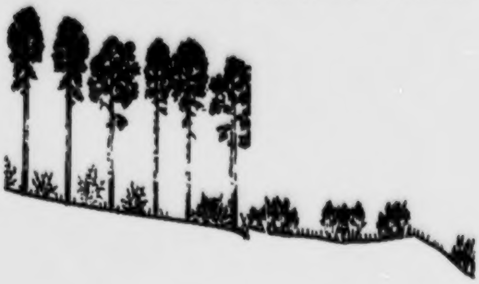
Ecosite	Ecosite Phase	Forested Plant Community Type	Range Plant Community Type	Grazing succession	Harvesting and Fire succession
l marsh (hydric/rich)	l1 marsh	l1.1 cattail marsh			
		11.2 reed grass marsh			
		11.3 bulrush marsh			

aa grass/shrubland (n=6)

xeric/poor

GENERAL DESCRIPTION

This ecosite is associated with small grassy openings within Jack pine and aspen forests. This site has dry conditions, with rapidly drained, nutrient poor soils. The parent materials are generally coarse textured eolian, glacialfluvial or fluvial eolian in origin. The high insolation and dry site conditions favour the growth of grassland species. These include Northern ricegrass, slender wheatgrass, Sedge, bearberry and plains wormwood In the moister sites (lower slope positions) aspen and shrubs (saskatoon, rose) are quite common.

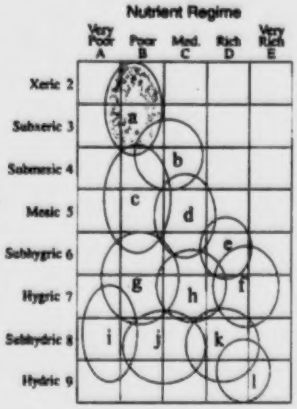


SUCCESSIONAL RELATIONSHIPS

Due to the nature of the site grasslands often remain the climax vegetation on these sites. In the moister lower slope positions shrubs often dominate the site with succession to aspen and spruce. On the drier hilltops and midslopes grasslands dominated by plains wormwood and northern ricegrass usually represent the climax vegetation. Heavy grazing pressure on the grasslands can often lead to a degraded site that is dominated by kentucky bluegrass, dandelion, and sedge species.

INDICATOR SPECIES

Blueberry
Rose
Saskatoon
Plains wormwood
Bearberry
Strawberry
Fleabane
Clover
Sheep fescue
Northern ricegrass
Slender wheatgrass
Kentucky bluegrass
Hairy wildrye



SITE CHARACTERISTICS

Moisture regime: xeric, subxeric, submesic
Nutrient regime: poor, medium
Topographic position: crest, upper, mid to lower slope
Slope: (0-2%) (5-10%)
Aspect: south, southwest, west

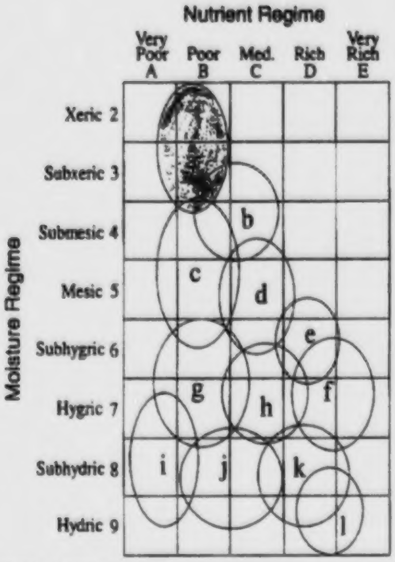
SOIL CHARACTERISTICS

Organic thickness: (0-2)
Humus form: mor
Surface texture: SL,L
Effective texture: SL, S
Depth to Mottles/Gley: none
Drainage: rapid, well
Parent material: E, GF,FE,F
Soil subgroup: O.EB, E.DYB O.R

ECOSITE PHASES

aa1 Plains wormwood (4)

aa1 Plains wormwood (n=4)


Nutrient Regime
Very Poor A
Poor B
Med. C
Rich D
Very Rich E
Moisture Regime
Xeric 2
Subxeric 3
Submesic 4
Mesic 5
Subhygric 6
Hygric 7
Subhydric 8
Hydric 9
b
c
d
e
f
g
h
i
j
k
l

CHARACTERISTIC SPECIES

Shrub

[3]	Saskatoon
[1]	Rose
[3]	Blueberry

Forb

[2]	Fleabane
[9]	Plains wormwood*
[2]	Low goldenrod
[1]	Scouring rush
[1]	Clover
[1]	Common yarrow

Grasses

[9]	Sedge species*
[4]	Sheep fescue*
[1]	Creeping red fescue
[17]	Kentucky bluegrass
[4]	Northern ricegrass*
[3]	Purple oatgrass

SITE CHARACTERISTICS

Moisture regime: xeric, subxeric
Nutrient regime: poor,
Topographic position: crest, upper slope, midslope
Slope: 5-10%
Aspect: westerly, southerly

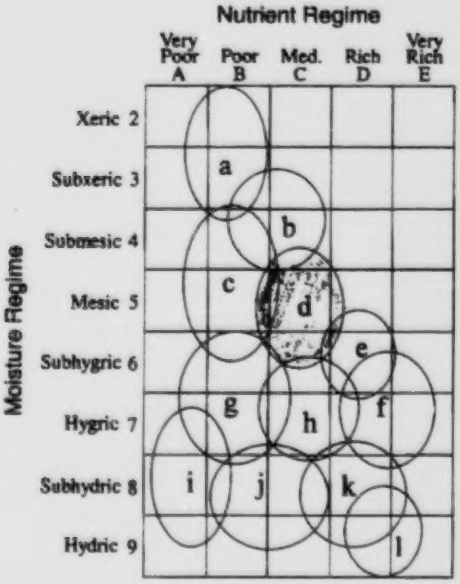
SOIL CHARACTERISTICS

Organic thickness: (0-2)
Humus form: mor
Surface texture: S, SL
Effective texture: S
Depth to Mottles/Gley: none
Drainage: rapid, well
Parent material: E, GF, FE
Soil subgroup: O.R, O.EB

RANGE PLANT COMMUNITY TYPES

DMA3. Plains wormwood/Sheep fescue-Sedge
DMA4. Plains wormwood/Kentucky bluegrass-Sedge

d1 Grazed Aw (n=26)


Nutrient Regime
Very Poor A
Poor B
Med. C
Rich D
Very Rich E
Moisture Regime
Xeric 2
Subxeric 3
Submesic 4
Mesic 5
Subhygric 6
Hygric 7
Subhydric 8
Hydric 9
a
b
c
d
e
f
g
h
i
j
k
l

CHARACTERISTIC SPECIES

Tree

[46]	Aspen*
[10]	Balsam poplar
[3]	White spruce

Shrub

[4]	Raspberry
[2]	Low bush cranberry
[6]	Snowberry
[14]	Rose*
[6]	Willow

Forb

[2]	Northern bedstraw
[5]	Strawberry*
[3]	Yellow peavine
[3]	Bunchberry*
[8]	Twinflower*
[2]	Wild lily-of-the-valley
[3]	Dewberry
[4]	Wintergreen
[1]	Dandelion*
[2]	Clover species*

Grasses

[4]	Marsh reedgrass*
[2]	Hairy wildrye
[1]	Purple oatgrass
[1]	Kentucky bluegrass*

SITE CHARACTERISTICS

Moisture regime:, mesic
Nutrient regime: medium
Topographic position: mid, lower slope, level
Slope: 0-5%
Aspect: variable

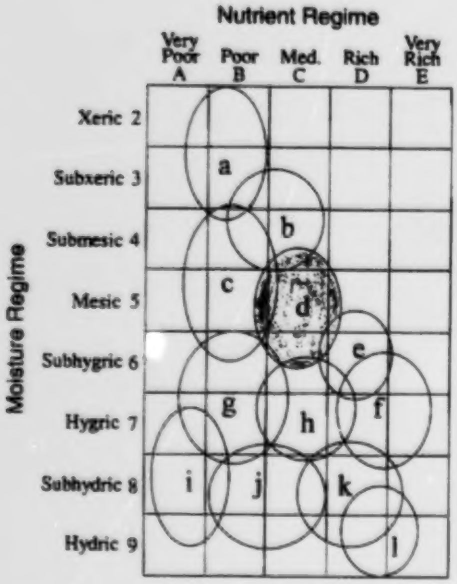
SOIL CHARACTERISTICS

Organic thickness: (6-15), (0-5)
Humus form: mor, raw moder
Surface texture: SiL, SL, S, L
Effective texture: C, SiC, CL, SCL, SiCL
Depth to Mottles/Gley: none, (0-25)
Drainage: well, mod. well, imperfect
Parent material: GF, M, GL
Soil subgroup: O.GL, GR.GL, GL.GL

RANGE PLANT COMMUNITY TYPES

CMC6. Aw/Rose/Twinflower
CMC7. Aw/Rose/Low forb
CMC10. Aw-Pb/Rose/Strawberry
CMC11. Aw/Rose/Clover

d1 Burned Aw (n=1)


Nutrient Regime
Very Poor A
Poor B
Med. C
Rich D
Very Rich E
Moisture Regime
Xeric 2
Subxeric 3
Submesic 4
Mesic 5
Subhygric 6
Hygric 7
Subhydric 8
Hydric 9
a
b
c
d
e
f
g
h
i
j
k
l

CHARACTERISTIC SPECIES

Tree

[1]	Aspen*
[1]	White birch

Shrub

[1]	Raspberry
[21]	Willow

Forb

[37]	Fireweed*
[2]	Strawberry*
[2]	Large leafed avens
[2]	Common yarrow
[1]	Harebell

Grasses

[19]	Marsh reedgrass*

Mosses

[11]	Moss species

SITE CHARACTERISTICS

Moisture regime:, mesic
Nutrient regime: medium
Topographic position: mid, lower slope, level
Slope: 0-5%
Aspect: variable

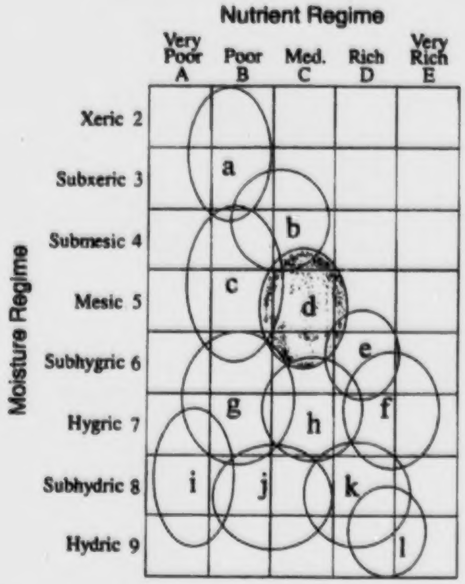
SOIL CHARACTERISTICS

Organic thickness: (6-15), (0-5)
Humus form: mor, raw moder
Surface texture: SiL, SL, S, L
Effective texture: C, SiC, CL, SCL, SiCL
Depth to Mottles/Gley: none, (0-25)
Drainage: well, mod. well, imperfect
Parent material: GF, M, GL
Soil subgroup: O.GL, GR.GL, GL.GL

RANGE PLANT COMMUNITY TYPES

CMA11. Willow/Fireweed

d3 Burned grazed Sw (n=1)


Nutrient Regime
Very Poor
A
Poor
B
Med.
C
Rich
D
Very Rich
E
Xeric 2
Subxeric 3
Submesic 4
Mesic 5
Subhygric 6
Hygric 7
Subhydric 8
Hydric 9
Moisture Regime
a
b
c
d
e
f
g
h
i
j
k
l

CHARACTERISTIC SPECIES

Tree

[8]	Larch
[5]	Aspen
[25]	White spruce*

Shrub

[6]	Rose
[50]	Willow

Forb

[22]	Clover species*
[5]	Strawberry
[6]	Bishop's cap
[1]	Common yarrow
[14]	Dandelion*
[2]	Canada thistle

Grasses

[1]	Fringed brome
[77]	Kentucky bluegrass*

SITE CHARACTERISTICS

Moisture regime:, mesic, subhygric, submesic
Nutrient regime: medium, rich, poor
Topographic position: mid, lower slope, level
Slope: (0-5), level, (6-9)
Aspect: variable

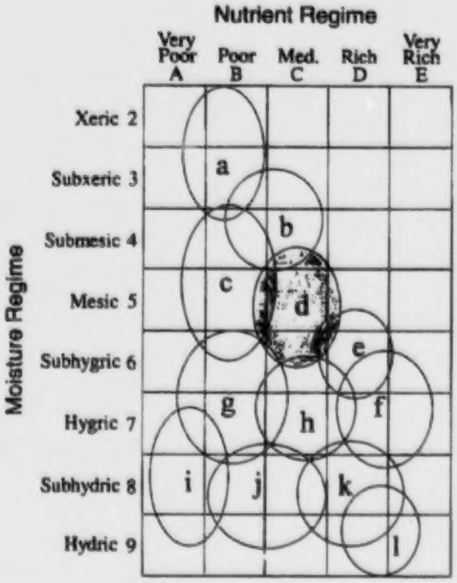
SOIL CHARACTERISTICS

Organic thickness: (6-15), (0-5)
Humus form: mor,
Surface texture: SiL, SL, S, CL, L
Effective texture: C, CL, SiC, SCL, SiCL
Depth to Mottles/Gley: none, (0-25)
Drainage: well, mod. well, imperfect
Parent material: GF, M, GL, GF/M, L
Soil subgroup: O.GL, BR.GL, GL.GL, E.EB

RANGE PLANT COMMUNITY TYPES

CMA12. Willow/Sw/Kentucky bluegrass

d4 shrubland (n=4)


Nutrient Regime
Very Poor A
Poor B
Med. C
Rich D
Very Rich E
Moisture Regime
Xeric 2
Subxeric 3
Submesic 4
Mesic 5
Subhygric 6
Hygric 7
Subhydric 8
Hydric 9
a
b
c
d
e
f
g
h
i
j
k
l

CHARACTERISTIC SPECIES

Tree

[1]	Aspen

Shrub

[9]	Raspberry
[19]	Snowberry*
[3]	Rose
[5]	Willow

Forb

[1]	Northern bedstraw
[1]	Strawberry
[1]	Large leafed avens
[2]	Cow parsnip
[1]	Fireweed
[2]	Common yarrow
[1]	American vetch
[2]	Canada thistle
[32]	Dandelion*
[29]	Clover species*

Grasses

[7]	Marsh reedgrass*
[3]	Sedge species
[7]	Slender wheatgrass
[38]	Kentucky bluegrass*

SITE CHARACTERISTICS

Moisture regime:, mesic, subhygric
Nutrient regime: medium, rich
Topographic position: level
Slope: 0-5%
Aspect: variable

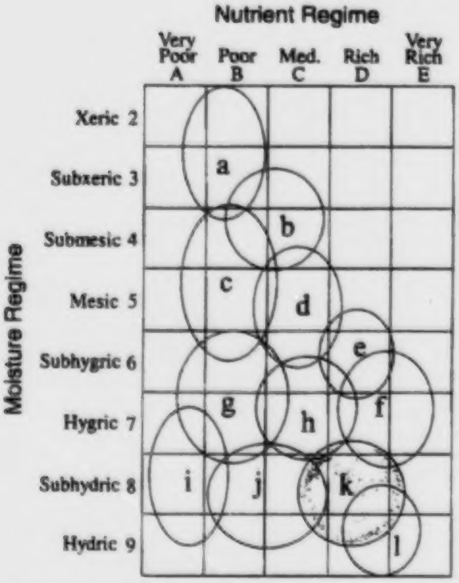
SOIL CHARACTERISTICS

Organic thickness: (0-5)
Humus form: moder
Surface texture: SiL, SL, L
Effective texture: SCL, SiCL, SiL
Depth to Mottles/Gley: none, (0-25)
Drainage: well, mod. well,
Parent material: GF, F, GL
Soil subgroup: O.GL, GL.GL

RANGE PLANT COMMUNITY TYPES

CMA4. Snowberry/Kentucky bluegrass

k2 grazed willow (n=4)


Nutrient Regime
Very Poor A
Poor B
Med. C
Rich D
Very Rich E
Moisture Regime
Xeric 2
Subxeric 3
Submesic 4
Mesic 5
Subhygric 6
Hygric 7
Subhydric 8
Hydric 9
a
b
c
d
e
f
g
h
i
j
k
l

CHARACTERISTIC SPECIES

Shrub

[3]	Rose
[25]	Willow*

Forb

[3]	Mint
[2]	Large leaved avens
[1]	Dock
[5]	Dandelion
[9]	Clover species*
[2]	Plantain
[3]	Strawberry*
[4]	Arrow-leaved coltsfoot

Grasses

[1]	Marsh reedgrass
[44]	Sedge species*
[3]	Fowl bluegrass
[21]	Kentucky bluegrass*

SITE CHARACTERISTICS

Moisture regime:, hydric, subhydric, hygric
Nutrient regime: rich, medium, very rich
Topographic position: level, depression
Slope: 0-5%
Aspect: variable

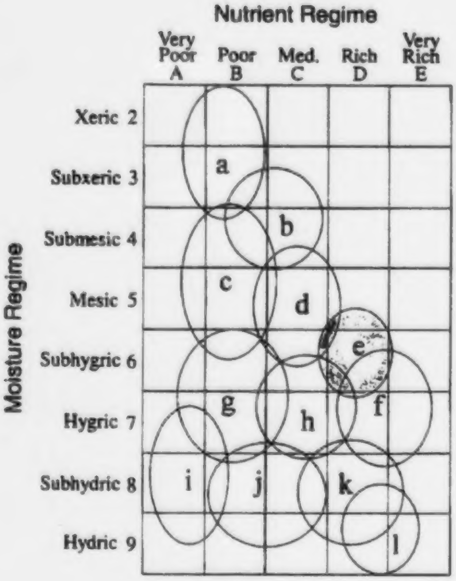
SOIL CHARACTERISTICS

Organic thickness: >80, (6-15),(0-5)
Humus form: peatmor
Surface texture: fibric, C, mesic, SiL, humic
Effective texture: mesic, C, hC, fibric, SiC, humic
Depth to Mottles/Gley: none, (0-25)
Drainage: very poor, poor
Parent material: O, GL, L
Soil subgroup: R.G, R.HG, TY.F, O.G

RANGE PLANT COMMUNITY TYPES

CMA8. Willow/Sedge/Kentucky bluegrass

e4 shrubland (n=5)


Nutrient Regime
Very Poor
A
Poor
B
Med.
C
Rich
D
Very Rich
E
Moisture Regime
Xeric 2
Subxeric 3
Submesic 4
Mesic 5
Subhygric 6
Hygric 7
Subhydric 8
Hydric 9
a
b
c
d
e
f
g
h
i
j
k
l

CHARACTERISTIC SPECIES

Tree

[5]	Paper birch
[1]	White spruce

Shrub

[14]	Raspberry
[5]	Bracted honeysuckle
[4]	Rose
[11]	Green alder
[12]	River alder
[39]	Willow*

Forb

[1]	Northern bedstraw
[1]	Strawberry
[9]	Horsetail*
[9]	Cow parsnip*
[4]	Fireweed
[4]	Wild sarsaparilla
[2]	American vetch
[5]	Dandelion

Grasses

[29]	Marsh reedgrass*
[5]	Sedge species
[1]	Slender wheatgrass
[3]	Kentucky bluegrass

SITE CHARACTERISTICS

Moisture regime:, subhygric, mesic,
Nutrient regime: rich, medium,
Topographic position: level
Slope: 0-5%
Aspect: variable

SOIL CHARACTERISTICS

Organic thickness: (6-15),(0-5)
Humus form: mor, raw moder
Surface texture: SiL, SL, L, S, SCL
Effective texture: SiC,C, CL, SiCL,SCL,S
Depth to Mottles/Gley: none, (0-25)
Drainage: imperfect, mod. well, poor, well
Parent material: GL, F
Soil subgroup: O.LG, O.G, GL.GL

RANGE PLANT COMMUNITY TYPES

CMA3. Cow parsnip/Kentucky bluegrass-Marsh reedgrass
CMA10. Willow-Alder/Marsh reedgrass

CENTRAL MIXEDWOOD SUBREGION

GRASSLAND AND SHRUBLAND COMMUNITY TYPES

Photo 7. This picture represents the Plains wormwood/Sheep fescue-Sedge community type. This community type is common on dry sandy hills throughout the Central Mixedwood subregion.

CM - NATIVE GRASS AND SHRUBLAND COMMUNITIES

Upland native grasslands are very rare in the Central Mixedwood subregion. The communities that have been described, occur on coarse textured, sandy soil, with xeric to subxeric moisture and poor nutrient regimes which lack tree cover. This includes the Plains wormwood/Sheep fescue-Sedge community type. This community type is usually found in association with jack pine dominated community types. Heavy grazing of this community type can lead to a Kentucky bluegrass-Sedge/Plains wormword dominated type on slightly moister sites. On level, gravelly, well-drained sites adjacent to streams and rivers a snowberry dominated community type is common. This community is extensively grazed by livestock to form the Snowberry/Kentucky bluegrass dominated type (Figure 3).

Wetter (subhydric/rich) sites are associated with sedge and marsh reedgrass dominated meadows. Sedge species are usually associated with the areas of free standing water and marsh reedgrass dominates the drier edges. Willow will invade into these meadows to form the Willow/Sedge and Willow/Marsh reedgrass community types. Under grazing pressure these community types tended to be invaded by dandelion, clover and Kentucky bluegrass to form the Willow/Sedge-Kentucky bluegrass community type.

Fire is an important part of the ecology of the Central Mixedwood subregion. There are a number of shrubland community types which have a strong fire origin. These include the Willow-Alder/Marsh reedgrass, Willow/Fireweed and Willow-Spruce/ Kentucky bluegrass dominated community types.

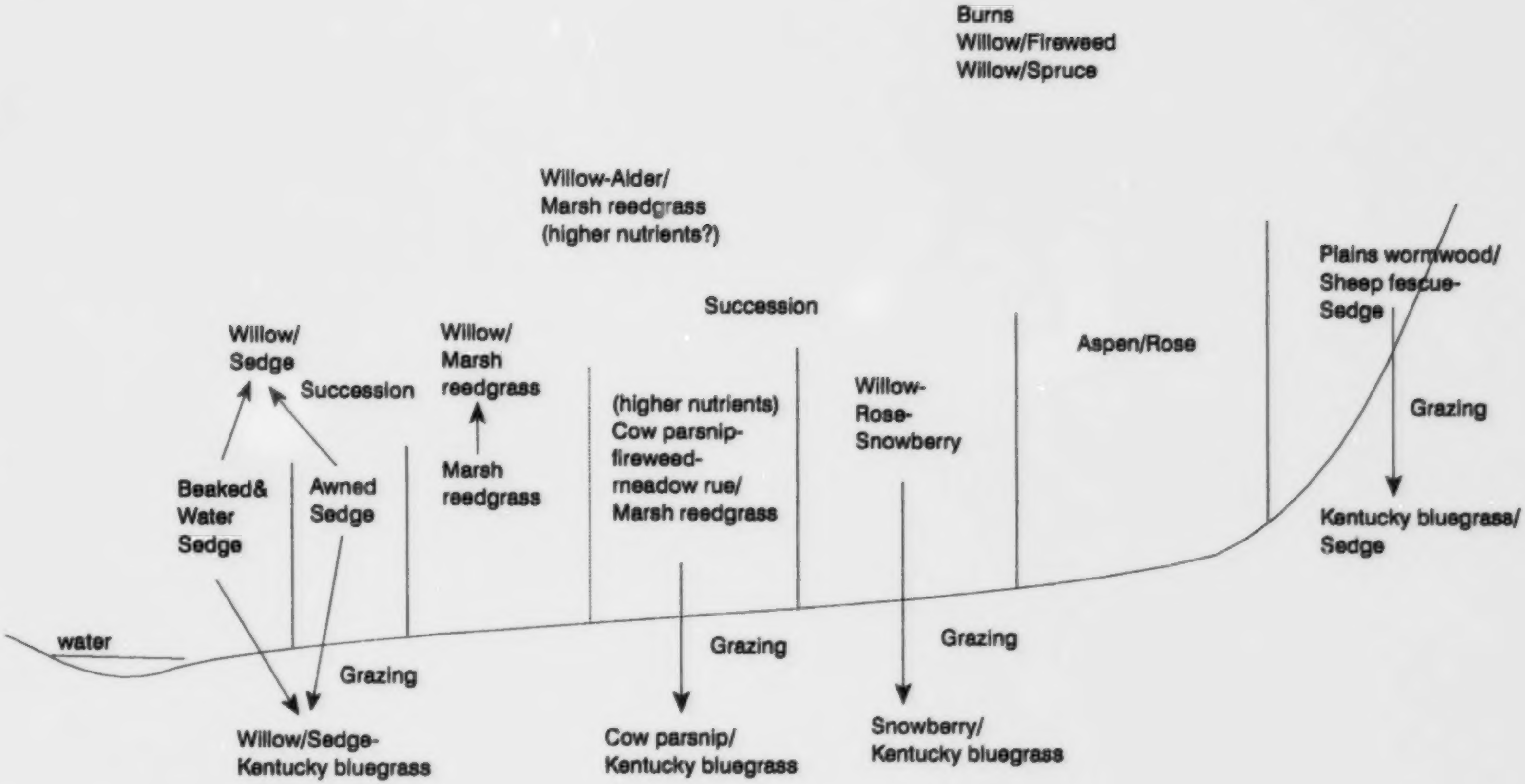
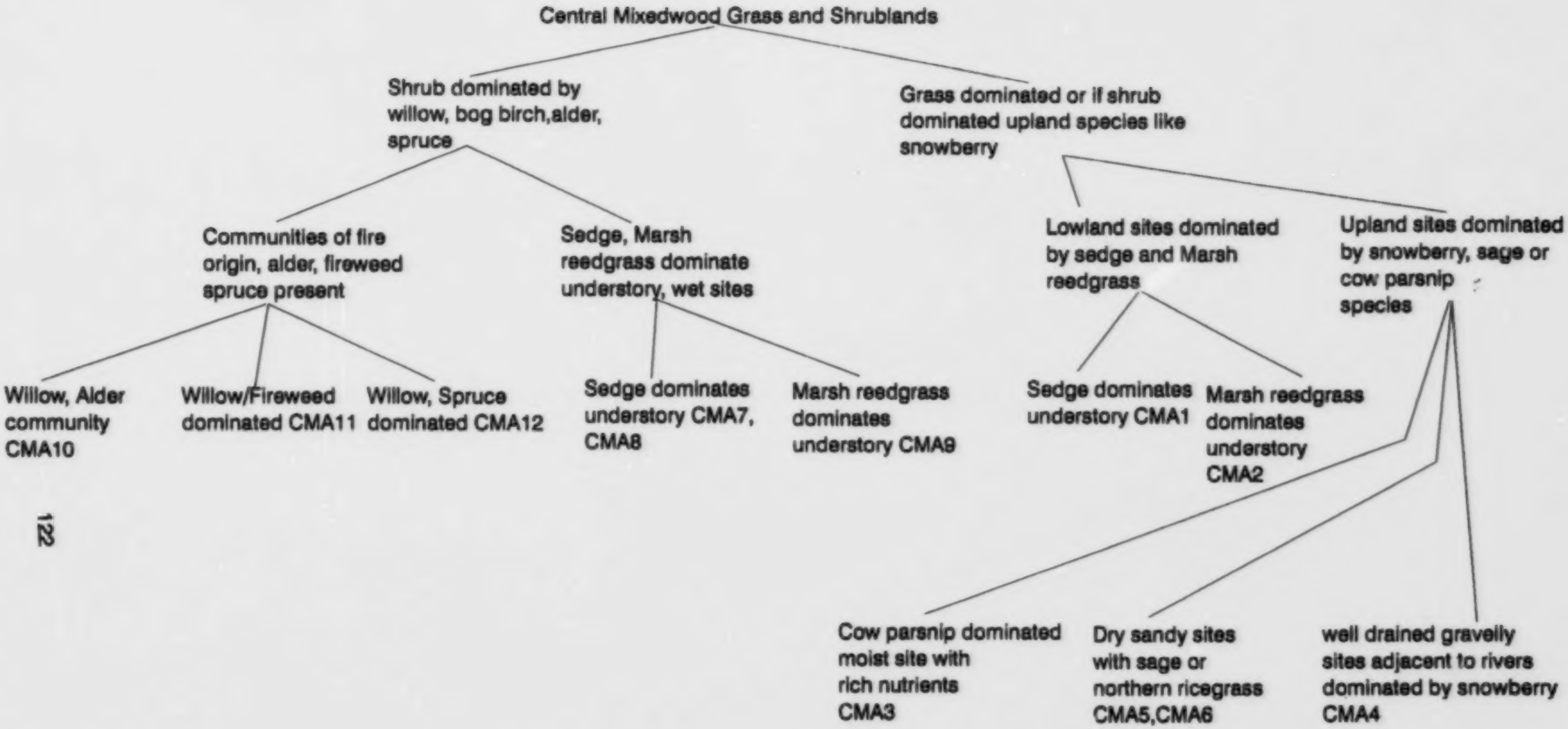

Burns
Willow/Fireweed
Willow/Spruce
Willow-Alder/
Marsh reedgrass
(higher nutrients?)
Succession
Willow/
Sedge
Succession
Willow/
Marsh
reedgrass
Beaked&
Water
Sedge
Awned
Sedge
Marsh
reedgrass
(higher nutrients)
Cow parsnip-
fireweed-
meadow rue/
Marsh reedgrass
Willow-
Rose-
Snowberry
Aspen/Rose
Plains wormwood/
Sheep fescue-
Sedge
Grazing
Kentucky bluegrass/
Sedge
water
Grazing
Willow/Sedge-
Kentucky bluegrass
Grazing
Cow parsnip/
Kentucky bluegrass
Grazing
Snowberry/
Kentucky bluegrass

Figure 3. Ecology of the native grass and shrublands in the landscape of the Central Mixedwood subregion.

Table 7. Production (kg/ha) and grazing capacity (ha/AUM) for the ecosite phase, grass and shrub community types for the Central Mixedwood subregion

Community number	Community type	Total productivity (Kg/ha)	Ecosite	Grazing Capacity (Ha/AUM)
Ecosite phase aa1 plains wormwood		**817**		**1.2**
CMA5	Plains wormwood/Sheep fescue-Sedge	772	(xeric/poor)	1.2
CMA6	Plains wormwood/Kentucky bluegrass-Sedge	862	(xeric/poor)	1.1
Ecosite phase d4 shrubland		**2790**		**0.4**
CMA4	Snowberry/Kentucky bluegrass	2790	(mesic/medium)	0.4
Ecosite phase d1 burned aspen		**1748**		**0.5**
CMA11	Willow/Fireweed	1748	(mesic/medium)	0.5
Ecosite phase d3 burned spruce		**1254**		**0.4**
CMA12	Willow-Spruce/Kentucky bluegrass	2524	(mesic/medium)	0.4
Ecosite phase e4 shrubland		**1708**		**1.2**
CMA3	Cow parsnip/Kentucky bluegrass-Marsh reedgrass	2468	(subhygric/rich)	0.4
CMA10	Willow-Alder/Marsh reedgrass	947	(subhygric/rich)	1.9
Ecosite phase k2 shrubby rich fen		**1301**		**1.4**
CMA7	Willow/Sedge	1072	(subhydric/rich)	0.8
CMA9	Willow/Marsh reedgrass	1529	(subhygric/medium)	1.9
Ecosite phase k2 grazed shrubland		**2138**		**0.3**
CMA8	Willow/Sedge-Kentucky bluegrass	2138	(subhydric/rich)	0.3
Ecosite phase k3 graminoid rich fen		**2244**		**0.4**
CMA1	Sedge meadow	2370	(subhydric/rich)	0.4
CMA2	Marsh reedgrass meadow	2117	(subhydric/rich)	0.4


Central Mixedwood Grass and Shrublands
Shrub dominated by willow, bog birch,alder, spruce
Grass dominated or if shrub dominated upland species like snowberry
Communities of fire origin, alder, fireweed spruce present
Sedge, Marsh reedgrass dominate understory, wet sites
Lowland sites dominated by sedge and Marsh reedgrass
Upland sites dominated by snowberry, sage or cow parsnip species
Willow, Alder community CMA10
Willow/Fireweed dominated CMA11
Willow, Spruce dominated CMA12
Sedge dominates understory CMA7, CMA8
Marsh reedgrass dominates understory CMA9
Sedge dominates understory CMA1
Marsh reedgrass dominates understory CMA2
Cow parsnip dominated moist site with rich nutrients CMA3
Dry sandy sites with sage or northern ricegrass CMA5,CMA6
well drained gravelly sites adjacent to rivers dominated by snowberry CMA4

Key to native grass and shrublands in the Central Mixedwood subregion

CMA1. Sedge meadows

(Carex aquatilis, C. rostrata, C. atherodes)

n=5 This wetland community type is found near fresh water. The sedge meadow is a poorly drained community. As one moves to the drier edges marsh reedgrass becomes predominant. Willows will invade into both the sedge and marsh reedgrass dominated meadows. The sedge meadow community is very productive, but the high water table, particulary in the spring when the sedge species are most palatable, restricts livestock movement. One study done in the Yukon found that crude protein on these meadows declined from a high of 10% in May to less than 5% in September (Bailey et al. 1992).

Beaked sedge found in abundance in this community is usually associated with nitrogen rich conditions and moving water (Brierly et al. 1985). Water sedge is often found in abundance in this community type and is associated with calcium rich stagnant water (MacKinnon et al. 1992).

PLANT COMPOSITION CANOPY COVER(%)

	MEAN	RANGE	CONST.
FORBS			
MARSH SKULLCAP *(Scutellaria galericulata)*	5	0-25	20
NODDING BEGGARTICKS *(Bidens cernua)*	3	0-13	20
DANDELION *(Taraxacum officinale)*	1	0-3	20
GRASSES			
BEAKED SEDGE (*Carex rostrata)*	48	8-73	100
AWNED SEDGE (*Carex atherodes*)	13	0-57	40
WATER SEDGE (*Carex aquatilis*)	3	0-7	100
MARSH REEDGRASS (*Calamagrostis canadensis*)	8	0-18	60

ENVIRONMENTAL VARIABLES

MOISTURE REGIME (MEAN):
SUBHYDRIC-HYGRIC
NUTRIENT REGIME (MEAN
PERMESOTROPHIC
ELEVATION:
485(150-606) M

SOIL DRAINAGE (MEAN):
POORLY TO VERY POORLY

FORAGE PRODUCTION(KG/HA)

GRASS	2209(1498-300)
FORB	161(0-644)
TOTAL	2370(1498-3000)

SUGGESTED GRAZING CAPACITY
0.4 HA/AUM (AUTUMN ONLY)

CMA2. Marsh reedgrass meadow

(Calamagrostis canadensis)

n=6 This community is found on the edges of sedge meadows and moist draws where the water table is lower. The lower water table makes this community accessible for most of the grazing season. Willow will invade onto these sites to form the Willow/Marsh reedgrass community type. Increased grazing pressure on these sites will cause marsh reedgrass to decline and their will be an invasion of Kentucky bluegrass and dandelion. These sites are highly productive for domestic livestock and should be rated as primary range.

PLANT COMPOSITION CANOPY COVER(%)

	MEAN	RANGE	CONST.
TREES			
WHITE BIRCH (*Betula papyrifera*)	2	0-14	17
SHRUBS			
WILLOW SPP. *(Salix spp.)*	1	0-2	33
FORBS			
NODDING BEGGARTICKS *(Bidens cernua)*	1	0-1	17
LEAFY-BRACTED ASTER *(Aster sibricus)*	T	0-1	17
DOCK, SORREL *(Rumex crispus)*	1	0-1	33
GRASSES			
MARSH REEDGRASS *(Calamagrostis canadensis)*	56	34-83	100
BEAKED SEDGE (*Carex rostrata*)	4	0-28	17
WATER SEDGE (*Carex aquatilis*)	4	0-14	33
AWNED SEDGE (*Carex atherodes*)	11	0-33	67

ENVIRONMENTAL VARIABLES

MOISTURE REGIME (MEAN):
HYGRIC

NUTRIENT REGIME (MEAN):
MESOTROPHIC

ELEVATION:
320(150-758) M

SOIL DRAINAGE (MEAN):
POORLY

FORAGE PRODUCTION(KG/HA)

GRASS	2068(1052-5110)
FORB	6(0-18)
SHRUB	42(0-254)
TOTAL	2117(1070-5110)

SUGGESTED GRAZING CAPACITY
0.4 HA/AUM

CMA3. Cow parsnip/Kentucky bluegrass-Marsh reedgrass

(Heracleum lanatum/Poa pratensis-Calamagrostis canadensis)

n=1 This community type is found on fine textured, silty soils adjacent to the Willow river near Wabasca . It represents a Willow/Cow parsnip/Marsh reedgrass community that has been cleared and then grazed extensively. The heavy grazing pressure has allowed dandelion and Kentucky bluegrass to invade onto the site. The high nutrient and moisture regime of this community type makes it extremely productive. Once cleared of shrubs it can provide a significant amount of forage for domestic livestock.

PLANT COMPOSITION CANOPY COVER(%)

	MEAN	RANGE	CONST.
SHRUBS			
GREEN ALDER (*Alnus crispa*)	1	-	100
PRICKLY ROSE (*Rosa acicularis*)	8	-	100
FORBS			
COW PARSNIP *(Heracleum lanatum)*	42	-	100
HORSETAIL *(Equisetum arvense)*	33	-	100
DANDELION *(Taraxacum officinale)*	27	-	100
FIREWEED *(Epilobium angustifolium)*	19	-	100
YELLOW PEAVINE (*Lathyrus ochroleucus*)	8	-	100
GRASSES			
KENTUCKY BLUEGRASS *(Poa pratensis)*	15	-	100
MARSH REEDGRASS *(Calamagrostis canadensis)*	10	-	100
FRINGED BROME (*Bromus ciliatus*)	2	-	100

ENVIRONMENTAL VARIABLES

MOISTURE REGIME (MEAN):
SUBHYGRIC

NUTRIENT REGIME (MEAN):
PERMESOTROPHIC

ELEVATION:
606 M
SOIL DRAINAGE (MEAN):
MODERATELY WELL

FORAGE PRODUCTION(KG/HA)

GRASS	200
FORB	1798
SHRUB	470
TOTAL	2468

SUGGESTED GRAZING CAPACITY
0.4 HA/AUM

CMA4. Snowberry/Kentucky bluegrass

(Symphoricarpos occidentalis/Poa pratensis)

n=4 This snowberry dominated community type appears to be common on level, well drained, gravelly areas along rivers throughout Northern Alberta. In the absence of disturbance this community type appears to be dominated by snowberry, rose, fireweed, slender wheatgrass and marsh reedgrass. Heavy grazing pressure causes the native forbs and grasses to decline and allows Kentucky bluegrass, dandelion and clover to increase. Because these clearings are some of the only natural openings throughout the Central Mixedwood they tend to be heavily utilized by livestock. Snowberry which is unpalatable to livestock will remain even under extreme grazing pressure.

PLANT COMPOSITION

PLANT COMPOSITION	CANOPY COVER(%)		
	MEAN	RANGE	CONST.
SHRUBS			
PRICKLY ROSE *(Rosa acicularis)*	3	0-9	50
BUCKBRUSH (*Symphoricarpos occidentalis*)	19	1-30	100
WILLOW (*Salix spp.*)	5	0-8	75
FORBS			
STRAWBERRY *(Fragaria virginiana)*	1	0-1	75
CLOVER *(Trifolium repens)*	29	0-54	75
DANDELION *(Taraxacum officinale)*	32	5-49	100
YARROW *(Achllea millefolium)*	2	1-4	100
AMERICAN VETCH (*Vicia americana)*	1	0-1	50
GRASSES			
MARSH REEDGRASS *(Calamagrostis canadensis)*	7	0-24	50
SLENDER WHEATGRASS *(Agropyron trachycaulum)*	7	3-13	100
KENTUCKY BLUEGRASS (*Poa pratensis*)	38	16-73	100
PRAIRIE SEDGE (*Carex prairea*)	1	0-1	25

ENVIRONMENTAL VARIABLES

MOISTURE REGIME (MEAN):
MESIC
NUTRIENT REGIME (MEAN):
MESOTROPHIC TO PERMESOTROPHIC
ELEVATION:
576-606(586) M
SOIL DRAINAGE (MEAN):
WELL

FORAGE PRODUCTION(KG/HA)

GRASS	1337(800-1800)
FORB	1311(200-2390)
SHRUB	141(0-424)
TOTAL	2790(2000-3614)

SUGGESTED GRAZING CAPACITY
0.4 HA/AUM

CMA5. Plains wormwood/Sheep fescue-Sedge

(Artemisia campestris/Festuca saximontana-Carex spp.)

n=3 This community type is found on coarse textured, sandy soils. It is generally found on hilltops and south-facing slopes in openings among Jack pine on the uplands and black spruce in the lowlands. This community type was also described on similar site conditions in the Dry Mixedwood subregion. This community would be considered either secondary or non-use range for domestic livestock because of the low forage production and fragile nature of the community.

PLANT COMPOSITION CANOPY COVER(%)

	MEAN	RANGE	CONST.
SHRUBS			
SASKATOON (*Amelanchier alnifolia*)	3	1-3	100
BLUEBERRY (*Vaccinium myrtilloides*)	3	0-8	33
FORBS			
SMOOTH SCOURING RUSH *(Equisetum laevigatum)*	1	0-1	33
PLAINS WORMWOOD *(Artemisia campestris)*	9	2-13	100
LOW GOLDENROD *(Solidago missouriensis)*	2	1-3	66
BEARBERRY *(Arctostaphylos uva-ursi)*	5	0-8	67
GRASSES			
KENTUCKY BLUEGRASS *(Poa pratensis)*	3	1-4	100
NORTHERN RICEGRASS *(Oryzopsis pungens)*	4	0-12	67
SLENDER WHEATGRASS (*Agropyron trachycaulum*)	2	1-5	100
SEDGE (*Carex spp*)	9	7-10	100
SHEEP FESCUE (*Festuca saximontana*)	8	7-10	100

ENVIRONMENTAL VARIABLES

MOISTURE REGIME (MEAN):
SUBMESIC-SUBXERIC

NUTRIENT REGIME (MEAN):
MESOTROPHIC
ELEVATION:
611 (576-652) M
SOIL DRAINAGE (MEAN):
RAPIDLY
SLOPE(RANGE):
22(15-30)%
ASPECT:
SOUTH TO WESTERLY

FORAGE PRODUCTION(KG/HA)

GRASS	469(270-612)
FORB	303(200-452)
TOTAL	772(470-978)

SUGGESTED GRAZING CAPACITY
1.2 HA/AUM

CMA6. Plains wormwood/Kentucky bluegrass-Sedge

(Artemisia campestris/Poa pratensis-Carex spp.)

n=1 This community type is similar to the Plains wormwood/Sheep fescue-Sedge community type, but heavy grazing pressure and a higher nutrient and moisture regime has allowed Kentucky bluegrass to invade onto the site.

PLANT COMPOSITION CANOPY COVER(%)

	MEAN	RANGE	CONST.
SHRUBS			
SASKATOON (*Amelanchier alnifolia*)	2	-	100
CHOKECHERRY (*Prunus virginiana*)	8	-	100
SNOWBERRY (*Symphoricarpos occidentalis*)	3	-	100
FORBS			
MEADOW PARSNIP *(Zizia aptera)*	2	-	100
PLAINS WORMWOOD *(Artemisia campestris)*	4	-	100
LOW GOLDENROD *(Solidago missouriensis)*	2	-	100
BEARBERRY *(Arctostaphylos uva-ursi)*	10	-	100
GRASSES			
KENTUCKY BLUEGRASS *(Poa pratensis)*	49	-	100
NORTHERN RICEGRASS *(Oryzopsis pungens)*	4	-	100
SLENDER WHEATGRASS (*Agropyron trachycaulum*)	3	-	100
SEDGE (*Carex spp*)	13	-	100
SHEEP FESCUE (*Festuca saximontana*)	1	-	100

ENVIRONMENTAL VARIABLES

MOISTURE REGIME (MEAN):
SUBMESIC

NUTRIENT REGIME (MEAN):
MESOTROPHIC
ELEVATION:
606 M
SOIL DRAINAGE (MEAN):
RAPIDLY
SLOPE(RANGE):
15%
ASPECT:
SOUTH TO WESTERLY

FORAGE PRODUCTION(KG/HA)

GRASS	824
FORB	38
TOTAL	862

SUGGESTED GRAZING CAPACITY
1.1 HA/AUM

CMA7. Willow/Sedge

(*Salix spp./Carex spp.*)

n=6 This community type is found along the edges of sedge meadows and in moist depressions. Willow becomes established at the edges of the sedge meadows due to the shorter duration of standing water. Increased flooding and prolonged waterlogging may result in the disappearance of willow and a transition to a water sedge meadow.

These sites are fairly productive but difficult to graze due to the moist ground conditions and heavy shrub cover which reduces access and mobility within the area.

Plant Composition	CanopyCover(%)		
	Mean	Range	Const.
Shrubs			
Willow spp.			
(Salix spp.)	57	26-85	100
Forbs			
Mint			
(Mentha arvensis)	1	0-1	17
Green sorel			
(Rumex acetosa)	1	0-1	17
Fireweed			
(*Epilobium angustifolium*)	3	0-10	67
Horsetail			
(*Equisetum arvense*)	10	0-60	34
Grasses			
Awned sedge			
(Carex atherodes)	12	0-31	50
Marsh reedgrass			
(*Calamagrostis canadensis*)	12	0-20	83
Beaked sedge			
(Carex rostrata)	7	0-20	50
Water sedge			
(*Carex aquatilis*)	14	0-43	50

Environmental Variables

Moisture Regime (mean):
Subhydric

Nutrient Regime (mean):
Permesotrophic

Elevation:
393(150-636) m

Soil Drainage (mean):
Poorly

FORAGE PRODUCTION(KG/HA)

Grass	852(0-1734)
Forb	96(70-150)
Shrub	100(0-364)
Total	1072(214-2218)

Suggested grazing capacity
0.8 Ha /AUM

CMA8. Willow/Sedge-Kentucky bluegrass

(Salix spp./Carex spp.-Poa pratensis)

n=4 This community type is very similar to the Willow/Sedge community, but has been heavily grazed favouring the growth of Kentucky bluegrass and dandelion. Continued heavy grazing pressure will eventually lead to a community that is similar to the Kentucky bluegrass/Dandelion dominated community type.

PLANT COMPOSITION

	Canopy Cover(%)		
	Mean	Range	Const.
Shrubs			
Willow spp. *(Salix spp.)*	25	1-40	100
Prickly rose (*Rosa acicularis*)	3	0-10	25
Forbs			
Strawberry (*Fragaria virginiana)*	3	0-11	25
Dandelion *(Taraxacum offincinale)*	5	0-19	25
Mint *(Mentha arvensis)*	3	0-6	75
Clover (*Trifolium spp.*)	9	0-44	25
Arrow leaved coltsfoot (*Petasites sagittatus*)	9	0-15	50
Grasses			
Sedge *(Carex rostrata, aquatilis atherodes.)*	40	12-61	100
Kentucky bluegrass *(Poa pratensis)*	21	7-42	100

ENVIRONMENTAL VARIABLES

Moisture Regime (mean):
Subhydgric

Nutrient Regime (mean):
Permesotrophic

Elevation:
576 m

Soil Drainage (mean):
Imperfectly

FORAGE PRODUCTION(KG/HA)

Grass	2121(1566-2478)
Forb	547(492-1204)
Total	2138(2770-2970)

Suggested grazing capacity
0.3 ha /AUM

CMA9. Willow/Marsh reedgrass

(Salix spp./Calamagrostis canadensis)

n=7 The Marsh reedgrass community type is found along the edges of sedge meadows and in moist depressions. Willow will invade onto these sites to form the Willow/Marsh reedgrass community type. Increased grazing pressure on these sites will cause marsh reedgrass to decline and there will be an invasion of Kentucky bluegrass and dandelion. These sites are highly productive for domestic livestock and should be rated as primary range. Increased flooding and prolonged waterlogging may result in the disappearance of willow and a transition to a water sedge meadow.

These sites are fairly productive but difficult to graze due to the moist ground conditions and heavy shrub cover which reduces access and mobility within the area.

PLANT COMPOSITION CANOPY COVER(%)

	MEAN	RANGE	CONST.
SHRUBS			
WILLOW SPP.			
(Salix spp.)	562	0-80	100
FORBS			
MINT			
(Mentha arvensis)	1	0-7	29
DANDELION			
(Taraxacum officinale)	3	0-12	57
GRASSES			
KENTUCKY BLUEGRASS			
(Poa pratensis)	3	0-7	29
MARSH REEDGRASS			
(Calamagrostis canadensis)	34	11-48	100
BEAKED SEDGE			
(Carex rostrata)	6	0-22	57
WATER SEDGE			
(Carex aquatilis)	4	0-23	29

ENVIRONMENTAL VARIABLES

MOISTURE REGIME (MEAN):
SUBHYDRIC

NUTRIENT REGIME (MEAN):
PERMESOTROPHIC

ELEVATION:
333-576(537) M

SOIL DRAINAGE (MEAN):
POORLY

FORAGE PRODUCTION(KG/HA)

GRASS	1050(318-2010)
FORB	107(0-270)
SHRUB	208(0-554)
TOTAL	1529(588-2118)

SUGGESTED GRAZING CAPACITY
0.6 HA/AUM

CMA10. Willow-Alder/Marsh reedgrass

(Salix spp-Alnus tenuifolia/Calamagrostis canadensis)

n=4 This community type represents a tall willow and alder dominated type that is usually represented as an AIA aspen stand on phase III maps. It is typically found in very moist, poorly drained areas. Black spruce communities are usually found associated with this community type on the wetter edges. The understory of this community type is fairly open allowing for easy access by livestock. When this community is situated next to trails or seismic lines it is moderately utilized by livestock.

PLANT COMPOSITION

	CANOPY COVER(%)		
	MEAN	RANGE	CONST.
SHRUBS			
WILLOW SPP. *(Salix spp.)*	49	40-65	100
RIVER ALDER (*Alnus tenuifolia*)	15	0-40	50
GREEN ALDER (*Alnus crispa*)	14	0-35	50
WILD RED RASPBERRY (*Rubus idaeus)*	17	0-33	75
BRACTED HONEYSUCKLE (*Lonicera involucrata*)	7	0-13	75
FORBS			
STRAWBERRY *(Fragaria virginiana)*	1	0-3	50
SWEET SCENTED BEDSTRAW *(Galium triflorum)*	4	0-11	75
WILD SARSAPARILLA *(Aralia nudicaulis)*	5	0-13	50
DEWBERRY (*Rubus pubscens*)	4	0-11	50
GRASSES			
MARSH REEDGRASS *(Calamagrostis canadensis)*	34	14-60	100
BEAKED SEDGE *(Carex rostrata)*	7	0-27	25

ENVIRONMENTAL VARIABLES

MOISTURE REGIME (MEAN):
SUBHYGRIC-HYGRIC

NUTRIENT REGIME (MEAN):
PERMESOTROPHIC

ELEVATION:
576 M

SOIL DRAINAGE (MEAN):
IMPERFECTLY

FORAGE PRODUCTION(KG/HA)

GRASS	702(118-1102)
FORB	184(18-470)
SHRUB	61(0-132)
TOTAL	947(592-1296)

SUGGESTED GRAZING CAPACITY
1.9 HA /AUM

CMA11. Willow/Fireweed

(Salix spp./Epilobium angustifolium)

n=1 This community type represents a 3 year old burn of a white spruce forest. Fireweed and marsh reedgrass early successional species quickly dominate the community after a fire. As this community undergoes succession the herbaceous understory will be suppressed as a result of shading by white spruce. Eliminating the tree canopy cover has increased the forage production of this site from 50-100 kg/ha under a spruce moss forest to over 1700 kg/ha on this community type.

PLANT COMPOSITION

	CANOPY COVER(%)		
	MEAN	RANGE	CONST.
TREES			
ASPEN (*Populus tremuloides*)	1	-	100
WHITE SPRUCE (*Picea glauca*)	10	-	100
SHRUBS			
WILLOW SPP. *(Salix spp.)*	21	-	100
FORBS			
STRAWBERRY *(Fragaria virginiana)*	2	-	100
FIREWEED *(Epilobium angustifolium)*	37	-	100
YARROW *(Achillea millefolium)*	2	-	100
LARGE LEAVED YELLOW AVENS *(Geum macrophyllum)*	2	-	100
GRASSES			
MARSH REEDGRASS *(Calamagrostis canadensis)*	19	-	100
HAIR-LIKE SEDGE *(Carex capillaris)*	1	-	100

ENVIRONMENTAL VARIABLES

MOISTURE REGIME (MEAN):
SUBHYGRIC-MESIC

NUTRIENT REGIME (MEAN):
MESOTROPHIC

ELEVATION:
150 M

SOIL DRAINAGE (MEAN):
MODERATELY WELL

FORAGE PRODUCTION(KG/HA)

GRASS	190
FORB	1322
SHRUB	236
TOTAL	1748

SUGGESTED GRAZING CAPACITY
0.5 HA /AUM

CMA12. Willow-Spruce/Kentucky bluegrass

(Salix spp.-Picea glauca/Poa pratensis)

n=1 This community represents an old spruce community which burned in 1968, succeeded to willow, and is now succeeding back to white spruce. After the fire, the canopy was opened up allowing for good forage productivity. Consequently, cattle grazing was quite heavy allowing Kentucky bluegrass and clover to establish. Thistle is now beginning to invade and will expand to other areas if not controlled. As the spruce continues to mature, the increasing canopy cover will cause a decline in overall production and this site will eventually become non-use for domestic livestock.

PLANT COMPOSITION CANOPY COVER(%)

	MEAN	RANGE	CONST.
TREES			
LARCH (*Larix laricina*)	8	-	100
WHITE SPRUCE(UNDERSTORY) (*Picea glauca*)	3	-	100
SHRUBS			
WILLOW SPP. (*Salix spp.*)	50	-	100
FORBS			
CLOVER (*Trifolium sp.*)	22	-	100
DANDELION (*Taraxacum officinale*)	14	-	100
MARSH HEDGE NETTLE (*Stachys palustris*)	6	-	100
BISHOP'S CAP (*Mitella nuda*)	6	-	100
CANADA THISTLE (*Cirsium arvense*)	2	-	100
GRASSES			
KENTUCKY BLUEGRASS (*Poa pratensis*)	77	-	100

ENVIRONMENTAL VARIABLES

MOISTURE REGIME (MEAN):
SUBHYGRIC

NUTRIENT REGIME (MEAN):
PERMESOTROPHIC

ELEVATION:
667 M

SOIL DRAINAGE (MEAN):
MODERATELY WELL TO IMPERFECTLY

FORAGE PRODUCTION(KG/HA)

GRASS	1985
FORB	540
SHRUB	0
TOTAL	2524

SUGGESTED GRAZING CAPACITY
0.4 HA/AUM

CENTRAL MIXEDWOOD SUBREGION

TAME FORAGE COMMUNITIES

Photo 8. This range improvement clearing exhibits signs of heavy grazing pressure and is slowly being invaded by tall buttercup.

CM - TAME FORAGE COMMUNITIES

(Cleared areas that have been broken and seeded to tame forage)

Throughout the Central Mixedwood subregion there are sites that have been deforested, broken, and seeded to tame forage. Usually these areas are mesic and moderately well to well drained with good nutrient levels. Because most of these tame forage stands are established on similar sites, the most influential factors affecting plant species composition are stand establishment and grazing regime.

Stand establishment is important because it determines what the initial plant species composition is going to be. Seed bed preparation and the type of seed sown are the two most important factors influencing stand establishment. Seed bed preparation is important because it helps to determine how well the sown seed germinates and establishes. If the seed bed is not well prepared the tame forage stand may establish poorly and native species can become a dominant component of the plant community. If the seed bed is well prepared, the community type that establishes will depend on the type of seed sown. If a mixture of Creeping Red Fescue, Timothy, and Alsike Clover is sown into the area a Creeping Red Fescue/ Alsike Clover community type will become established. Whereas, if a mixture of Smooth Brome Grass, Timothy, Creeping Red Fescue, and Red Clover is sown, a Smooth Brome/ Red Clover community type will become established.

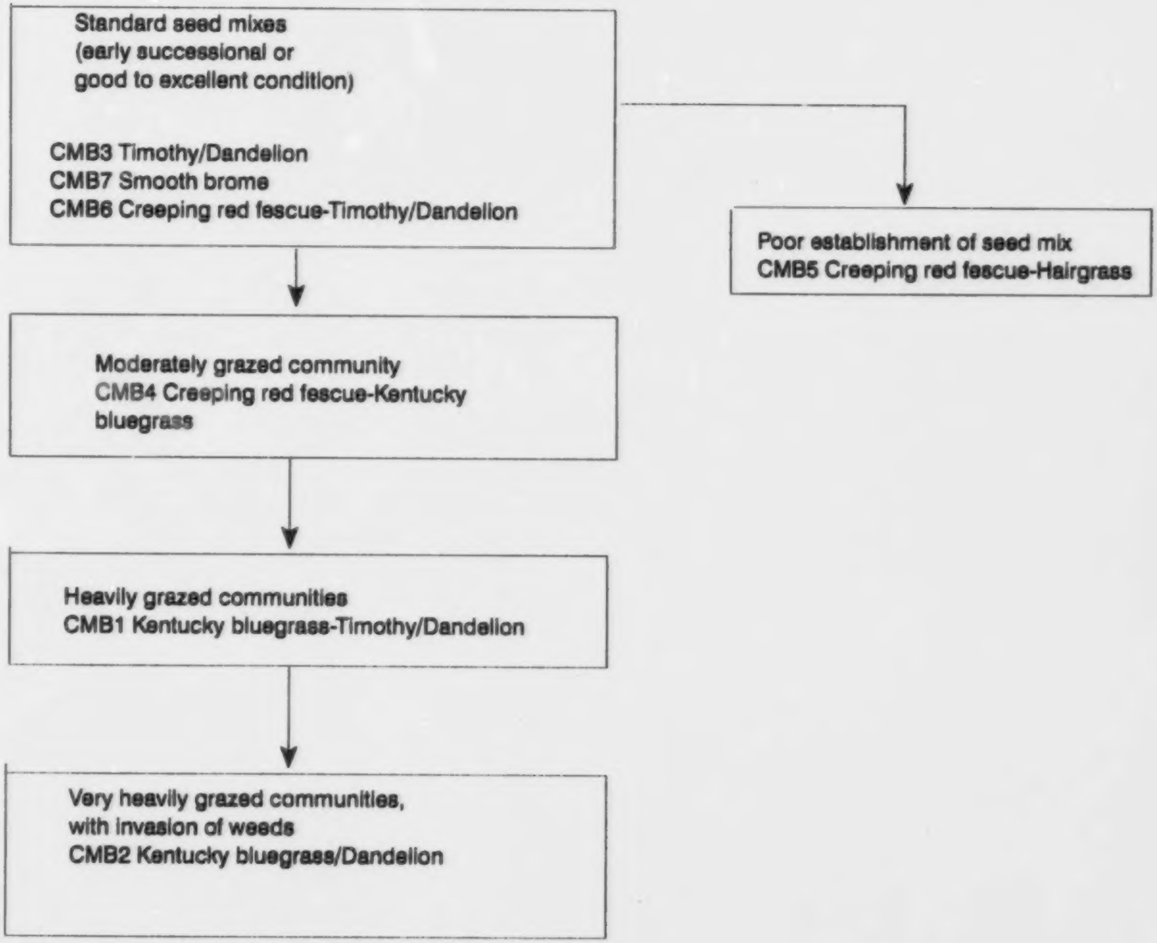
After the stand is established, the grazing regime applied to the stand will determine the plant species composition. Generally, a light to moderate amount of grazing allows the stand to maintain itself while sustained heavy grazing causes the stand to degrade. Damage to a stand due to over grazing occurs more readily while the stand is establishing than it does when the stand is established. This is because the forage plants in an establishing stand have not had time to develop energy reserves in their roots, and are therefore, more susceptible to grazing induced damage.

Well distributed light to moderate grazing will normally maintain a forage stand similar to what was seeded on the site. These stands are generally the most productive and provide the best grazing opportunities for livestock. They are normally considered to be in good to excellent range condition. Non use or very light grazing often results in the stand becoming dominated by the forage species that is most competitive under an ungrazed situation. Plant community changes which occur under heavy grazing are dependent on the grazing history (level of use, season of use and duration of the grazing regime). Overgrazed community types develop over a long period of repeated overgrazing. If weedy species such as Tall Buttercup, become established on overgrazed sites, they can quickly become a dominant species.

Table 8. Tame forage communities of the Central Mixedwood subregion

Community number	Community type	Productivity (kg/ha)				Ecosite	Grazing capacity (ha/AUM)
		Grass	Forb	Shrub	Total		
CMB1	Kentucky bluegrass/Dandelion	2344	843	0	2929	mesic/medium	0.4
CMB2	Kentucky bluegrass-Timothy/Dandelion	1396	1098	17	2793	mesic/medium	0.3
CMB3	Timothy/Dandelion	2000	470	0	2470	mesic/medium	0.4
CMB4	Creeping red fescue/Kentucky bluegrass	1859	908	0	2767	mesic/medium	0.3
CMB5	Creeping red fescue/Hairgrass	832	302	0	1134	submesic/poor	0.8
CMB6	Creeping red fescue-Timothy/Dandelion	1328	750	19	2097	mesic/medium	0.4
CMB7	Smooth brome	2034	680	0	2714	mesic/medium	0.3

Tame grass plant communities


Standard seed mixes
(early successional or
good to excellent condition)
CMB3 Timothy/Dandelion
CMB7 Smooth brome
CMB6 Creeping red fescue-Timothy/Dandelion
Poor establishment of seed mix
CMB5 Creeping red fescue-Hairgrass
Moderately grazed community
CMB4 Creeping red fescue-Kentucky bluegrass
Heavily grazed communities
CMB1 Kentucky bluegrass-Timothy/Dandelion
Very heavily grazed communities,
with invasion of weeds
CMB2 Kentucky bluegrass/Dandelion

Key to tame forage communities in the Central Mixedwood subregion

CMB1. Kentucky bluegrass/Dandelion

(Poa pratensis/Taraxacum officinale)

n=8 This community type has had a history of being grazed heavily throughout the growing season. Heavy grazing throughout the growing season, allows Kentucky bluegrass, clover, and dandelion to out-compete all of the other vegetation. This community occurs on tame pastures or native rangeland that has been over grazed. It is considered to be in poor condition because forage production and nutritional value have been degraded

PLANT COMPOSITION CANOPY COVER(%)

	MEAN	RANGE	CONST.
FORBS			
CLOVER *(Trifolium spp.)*	13	0-87	100
DANDELION *(Taraxacum officinale)*	17	1-89	100
PLANTAIN *(Plantago major)*	4	0-26	25
GRASSES			
SMOOTH BROME *(Bromus inermis)*	6	0-17	62
QUACKGRASS *(Agropyron repens)*	12	0-55	41
TIMOTHY *(Phleum pratense)*	2	0-11	38
KENTUCKY BLUEGRASS *(Poa pratensis)*	55	4-81	100

ENVIRONMENTAL VARIABLES

MOISTURE REGIME (MEAN):
MESIC-SUBHYGRIC

NUTRIENT REGIME (MEAN):
MESOTROPHIC TO PERMESOTROPHIC

ELEVATION:
576-667(594)M

SOIL DRAINAGE (MEAN):
WELL TO MODERATELY WELL

FORAGE PRODUCTION(KG/HA)

GRASS	2344(858-5304)
FORBS	843(0-3322)
TOTAL	2929(858-5371)

SUGGESTED GRAZING CAPACITY
0.4 HA/AUM

CMB2. Kentucky bluegrass-Timothy/Dandelion

(Poa pratensis-Phleum pratense/Taraxacum officinale)

n=6 This community type represents a tame pasture that is showing signs of heavy grazing pressure. The original seed mix species (such as timothy and smooth brome) are still present, however Kentucky bluegrass and dandelion have become established and are starting to take over. If allowed some rest, this field may recover to the original seeded species.

PLANT COMPOSITION CANOPY COVER(%)

	MEAN	RANGE	CONST.
FORBS			
CLOVER *(Trifolium spp.)*	25	1-67	100
DANDELION *(Taraxacum officinale)*	36	23-47	100
CANADA THISTLE *(Cirsium arvense)*	3	0-19	33
HORSETAIL (*Equisetum arvense*)	6	1-28	100
GRASSES			
CREEPING RED FESCUE *(Festuca rubra)*	1	0-7	17
FOXTAIL BARLEY *(Hordeum jubatum)*	3	0-16	33
KENTUCKY BLUEGRASS *(Poa pratensis)*	39	10-59	100
TIMOTHY (*Phleum pratense*)	11	1-25	100
SMOOTH BROME (*Bromus inermis*)	2	0-12	33

ENVIRONMENTAL VARIABLES

MOISTURE REGIME (MEAN):
MESIC TO SUBHYGRIC

NUTRIENT REGIME (MEAN):
MESOTROPHIC TO PERMESOTROPHIC

ELEVATION:
576-606(596)M

SOIL DRAINAGE (MEAN):
WELL TO MODERATELY WELL

FORAGE PRODUCTION(KG/HA)

GRASS	1396(700-2434)
FORBS	1098(280-2042)
SHRUB	17(0-100)
TOTAL	2793(1300-3902)

SUGGESTED GRAZING CAPACITY
0.3 HA/AUM

CMB3. Timothy/Dandelion

(Phleum pratense / Taraxacum officinale)

n=1 This community type develops on sites that were seeded with a timothy, meadow foxtail, clover mixture. Timothy establishes very quickly on pastures that have been recently seeded. If this pasture had been seeded with creeping red fescue and smooth brome they eventually will outcompete timothy and this community will likely become dominated by creeping red fescue and smooth brome. Timothy provides excellent forage for domestic livestock, especialy if timothy is kept in the vegetative state by mowing or grazing.

PLANT COMPOSITION CANOPY COVER(%)

	MEAN	RANGE	CONST.
FORBS			
ALSIKE CLOVER *(Trifolium hybridum)*	2	-	100
DANDELION *(Taraxacum officinale)*	42	-	100
WILD STRAWBERRY *(Fragaria virginiana)*	2	-	100
GRASSES			
MEADOW FOXTAIL *(Alopecurus pratensis)*	3	-	100
TIMOTHY *(Phleum pratense)*	29	-	100

ENVIRONMENTAL VARIABLES

MOISTURE REGIME (MEAN):
MESIC TO SUBHYGRIC

NUTRIENT REGIME (MEAN):
MESOTROPHIC TO PERMESOTROPHIC

ELEVATION:
576M

SOIL DRAINAGE (MEAN):
WELL (MODERATELY WELL)

FORAGE PRODUCTION(KG/HA)

GRASS	2000
FORBS	470
SHRUBS	0
TOTAL	2470

SUGGESTED GRAZING CAPACITY
0.4 HA/AUM

CMB4. Creeping red fescue-Kentucky bluegrass

(Festuca rubra-Poa pratensis)

n=3 This community type represents recently seeded fields that have since been moderately to heavily grazed. Kentucky bluegrass has increased to equal the level of the seeded species, creeping red fescue. If heavy grazing pressure persists, Kentucky bluegrass and dandelion will dominate resulting in a decline in forage quality. This community type will require a period of rest each year with light to moderate grazing pressure to maintain good cover of creeping red fescue.

PLANT COMPOSITION CANOPY COVER(%)

	MEAN	RANGE	CONST.
SHRUBS			
PRICKLY ROSE (*Rosa acicularis*)	3	0-7	66
FORBS			
CLOVER (*Trifolium spp.*)	2	0-3	66
DANDELION (*Taraxacum officinale*)	6	1-14	100
ALFALFA (*Medicago sativa*)	5	0-15	100
GRASSES			
KENTUCKY BLUEGRASS (*Poa pratensis*)	38	16-52	100
TIMOTHY (*Phleum pratense*)	1	1-2	100
CREEPING RED FESCUE (*Festuca rubra*)	34	24-48	100

ENVIRONMENTAL VARIABLES

MOISTURE REGIME (MEAN):
MESIC

NUTRIENT REGIME (MEAN):
MESOTROPHIC

ELEVATION:
579 (576-606)M

SOIL DRAINAGE (MEAN):
WELL

FORAGE PRODUCTION(KG/HA)

GRASS	1859(846-2738)
FORBS	2722(120-2348)
SHRUBS	0
TOTAL	2767(1100-5086)

SUGGESTED GRAZING CAPACITY
0.3 HA/AUM

CMB5. Creeping red fescue-Rough hairgrass

(Festuca rubra-Agrostis scabra)

n=1 This community type represents an area that was cleared and seeded, however due to poor soil conditions, it established poorly. The soils on this site are sandy to a depth of about 6 inches and hairgrass is well adapted to growing on these disturbed sites with poor nutrients. The overall cover of vegetation is sparse, therefore grazing should only be light in order to maintain the little cover of vegetation. This site should not have been approved for range improvement.

PLANT COMPOSITION CANOPY COVER(%)

	MEAN	RANGE	CONST.
FORBS			
THREE TOOTHED CINQUEFOIL *(Potentilla tridentata)*	3	-	100
ROUGH CINQUEFOIL *(Potentilla norvegica)*	1	-	100
GRASSES			
ROUGH HAIRGRASS (*Agrostis scabra)*	6	-	100
TIMOTHY (*Phleum pratense*)	2	-	100
CREEPING RED FESCUE (*Festuca rubra*)	12	-	100

ENVIRONMENTAL VARIABLES

MOISTURE REGIME (MEAN):
SUBMESIC

NUTRIENT REGIME (MEAN):
SUBMESOTROPHIC

ELEVATION:
579M

SOIL DRAINAGE (MEAN):
WELL

FORAGE PRODUCTION(KG/HA)

GRASS	832
FORBS	302
SHRUBS	0
TOTAL	1134

SUGGESTED GRAZING CAPACITY
0.8 HA/AUM

CMB6. Creeping red fescue-Timothy/Dandelion

(Festuca rubra-Phleum pratense/Taraxacum officinale)

n=9 This community type represents areas cleared of aspen, seeded to timothy, creeping red fescue and clover. In general, these sites are in good condition, but they will require adequate rest periods from grazing each season to remain in good condition.

PLANT COMPOSITION CANOPY COVER(%)

	MEAN	RANGE	CONST.
FORBS			
CLOVER			
(*Trifolium spp.)*	10	0-26	97
DANDELION			
(Taraxacum officinale)	7	0-14	78
COMMON YARROW			
(Achillea millefolium)	1	0-3	56
GRASSES			
CREEPING RED FESCUE			
(Festuca rubra)	50	25-79	100
KENTUCKY BLUEGRASS			
(Poa pratensis)	3	0-8	78
TIMOTHY			
(Phleum pratense)	6	0-19	78

ENVIRONMENTAL VARIABLES

MOISTURE REGIME (MEAN):
MESIC

NUTRIENT REGIME (MEAN):
MESOTROPHIC
ELEVATION:
576-636(603)M
SOIL DRAINAGE (MEAN):
WELL

FORAGE PRODUCTION (KG/HA)

GRASS	1328(724-2588)
FORB	750(250-1590)
SHRUB	19(0-162)
TOTAL	2097(1214-3268)

SUGGESTED GRAZING CAPACITY
0.4 HA/AUM

CMB7. Smooth brome

(Bromus inermis)

n=2 This community type occurs on cleared pastures that were seeded with a smooth brome, timothy-clover mix. With a moderate grazing regime, smooth brome grass is the most competitive forage plant seeded into this site. It out-competes timothy because it is strongly rhizomatous and is able to fill in the gaps between plants allowing it to shade out the timothy. One of the sites had only been recently cleared and the forage species had not yet fully established. As a result, forage production was only 1/3 as high as expected.

Plant Composition

	Canopy Cover(%)		
	Mean	Range	Const.
Shrubs			
Prickly rose (*Rosa acicularis*)	1	0-2	50
Forbs			
Clover *(Trifolium spp.)*	2	0-3	100
Grasses			
Smooth brome *(Bromus inermis)*	31	24-37	100
Sedge spp. *(Carex spp.)*	4	2-6	100
Timothy *(Phleum pratense)*	13	8-17	100
Kentucky bluegrass *(Poa pratensis)*	8	1-15	100

Environmental Variables

Moisture Regime (mean):
Mesic

Nutrient Regime (mean):
Mesotrophic
Elevation:
576m

Soil Drainage (mean):
Well (moderately well)

Forage Production(kg/ha)

Grass	2034
Forbs	680
Total	2714

Suggested grazing capacity
0.3 ha/AUM

CENTRAL MIXEDWOOD SUBREGION

DECIDUOUS FOREST COMMUNITY TYPES

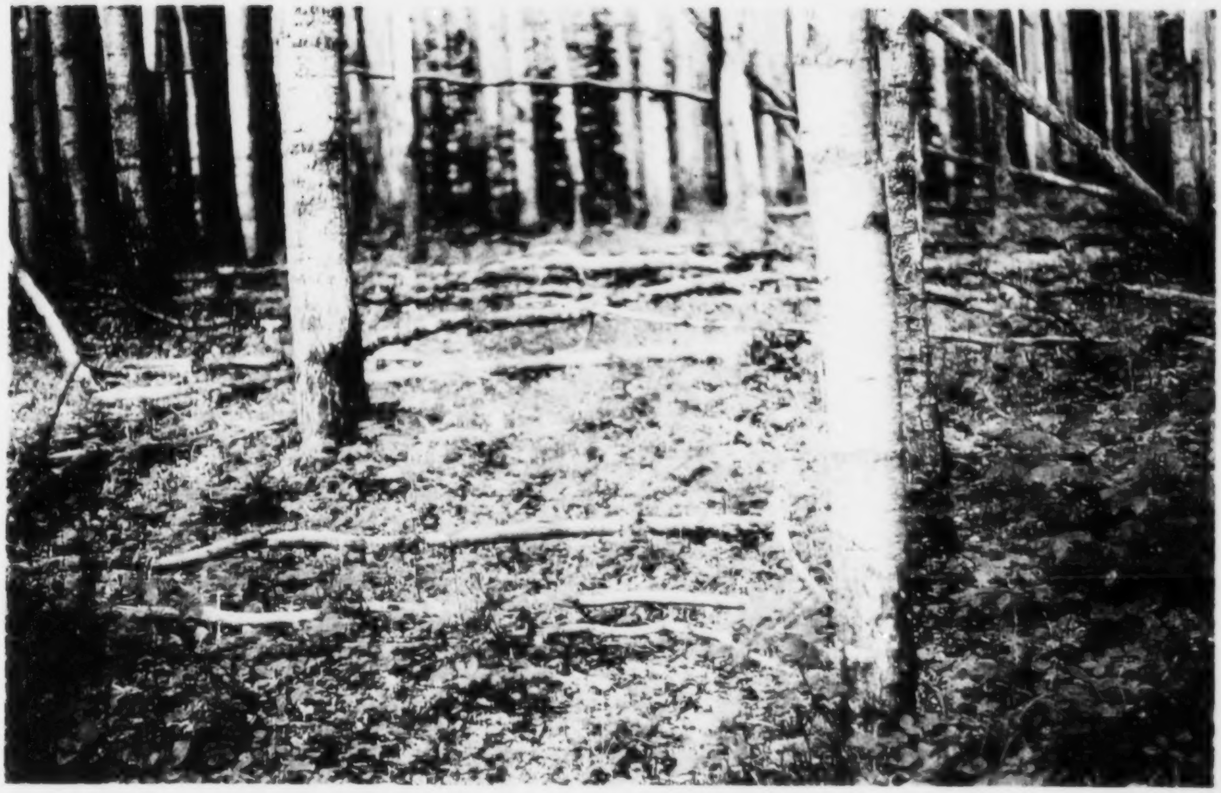


Photo 9. Aw/Rose/Clover community type represents a deciduous community that has been moderately to heavily grazed for a number of years.

CM - DECIDUOUS FOREST COMMUNITIES

Balsam poplar is most commonly found on moist upland and alluvial bottomland sites; its best growth is on moist rich bottomlands with deep soil (Peterson and Peterson 1992). The nine stands with predominant balsam poplar (Pb) cover represent four community types in the Central Mixedwood subregion. The Pb-Aw/River alder community is found on lower slope positions and stream channels where there is seepage throughout the growing season. The Pb/Rose-Alder, Pb-Aw/Beaked hazelnut-Rose and Aw-Pb/Honeysuckle community types are found upslope on slightly drier and better drained soils. These three community types integrade into the Aw/Rose dominated community types on mesic/medium ecosites.

White birch is indicative of well-drained, sandy or silty loams (Wilkinson 1990). In Alberta this tree is found in association with balsam poplar on moist sites adjacent to small creeks and lowland areas. Pure stands of Alaska variety white birch are also found on dry sandy ridges with high watertables throughout northern Alberta. Beckingham (1993), found that white birch was well adapted to growing on a soil with a pH of less than 5.3. The White birch/Willow dominated community type maybe indicative of sites with slightly lower pH's.

More mesic sites tend to be dominated by aspen and rose. It is the underlying soil conditions and site history that appear to dictate which forb and shrub species will dominate these mesic sites. Blueberry and twinflower appear to indicate sandy soils with poorer nutrient regimes. An abundance of tall forbs (Aw/Rose/Tall forb) appears to be indicative of higher nutrient regimes that have not been disturbed by livestock. In contrast the low forb (Aw/Rose/Low forb) dominated type occupies sites similar to the tall forb type, but these sites appear to have been disturbed by livestock. Increased grazing pressure on these two community types leads to the formation of strawberry and clover dominated community types (Pb-Aw/Rose/Strawberry, Aw/Rose/Clover).

Sites that have a more subhygric moisture regime and are moderately well-drained tend to be dominated by willow and alder (Aw/Alder-Willow-Rose, Aw/Willow). The Aw/Rose-Saskatoon community was described on south and west facing slopes overlooking streams and rivers. This community is very similar to the community that was described in the Dry Mixedwood subregion. On sites with rich nutrient regimes red osier dogwood and horsetail dominated communities are very common. The Aw/Horsetail community is usually found on moister sites than the Aw-Pb/Red osier dogwood-Rose community type.

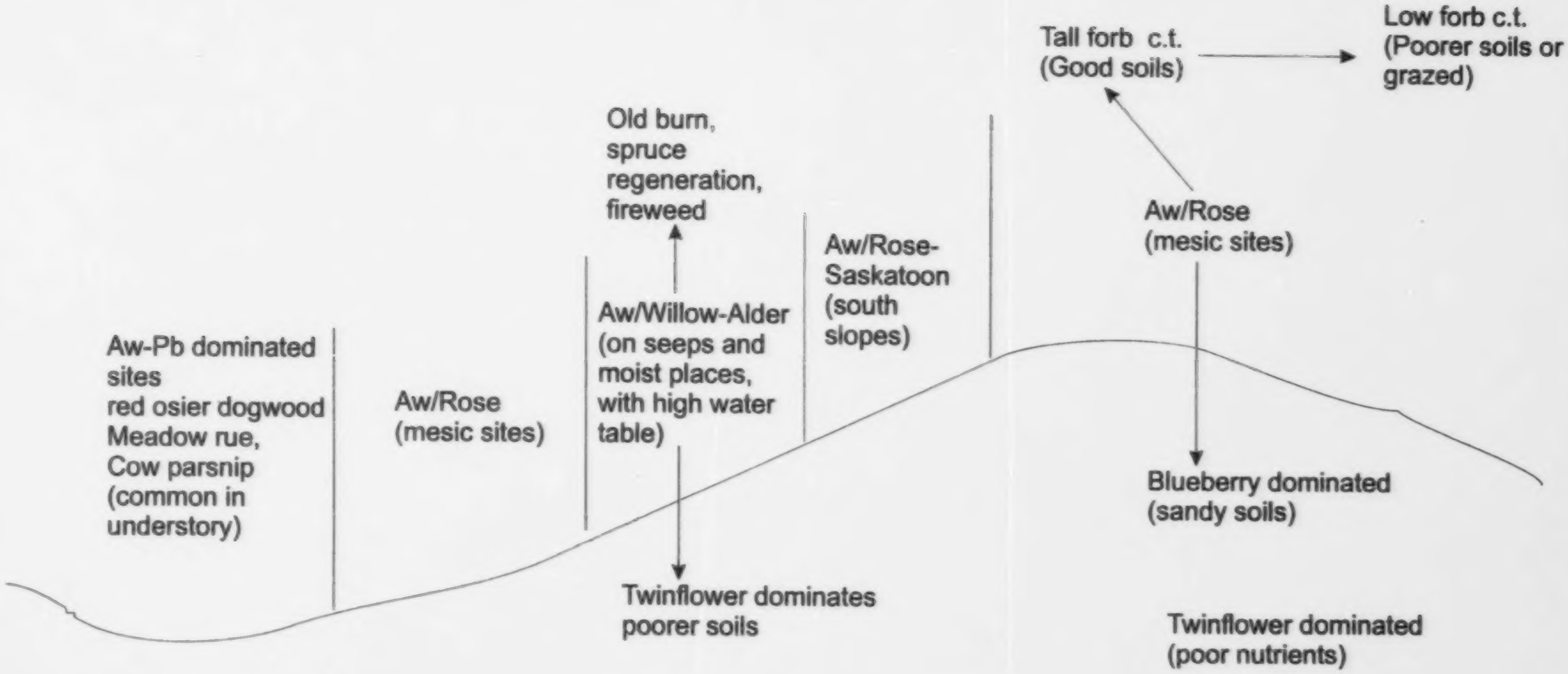

Low forb c.t.
(Poorer soils or
grazed)
Tall forb c.t.
(Good soils)
Old burn,
spruce
regeneration,
fireweed
Aw/Rose
(mesic sites)
Aw/Rose-
Saskatoon
(south
slopes)
Aw/Willow-Alder
(on seeps and
moist places,
with high water
table)
Aw-Pb dominated
sites
red osier dogwood
Meadow rue,
Cow parsnip
(common in
understory)
Aw/Rose
(mesic sites)
Blueberry dominated
(sandy soils)
Twinflower dominates
poorer soils
Twinflower dominated
(poor nutrients)

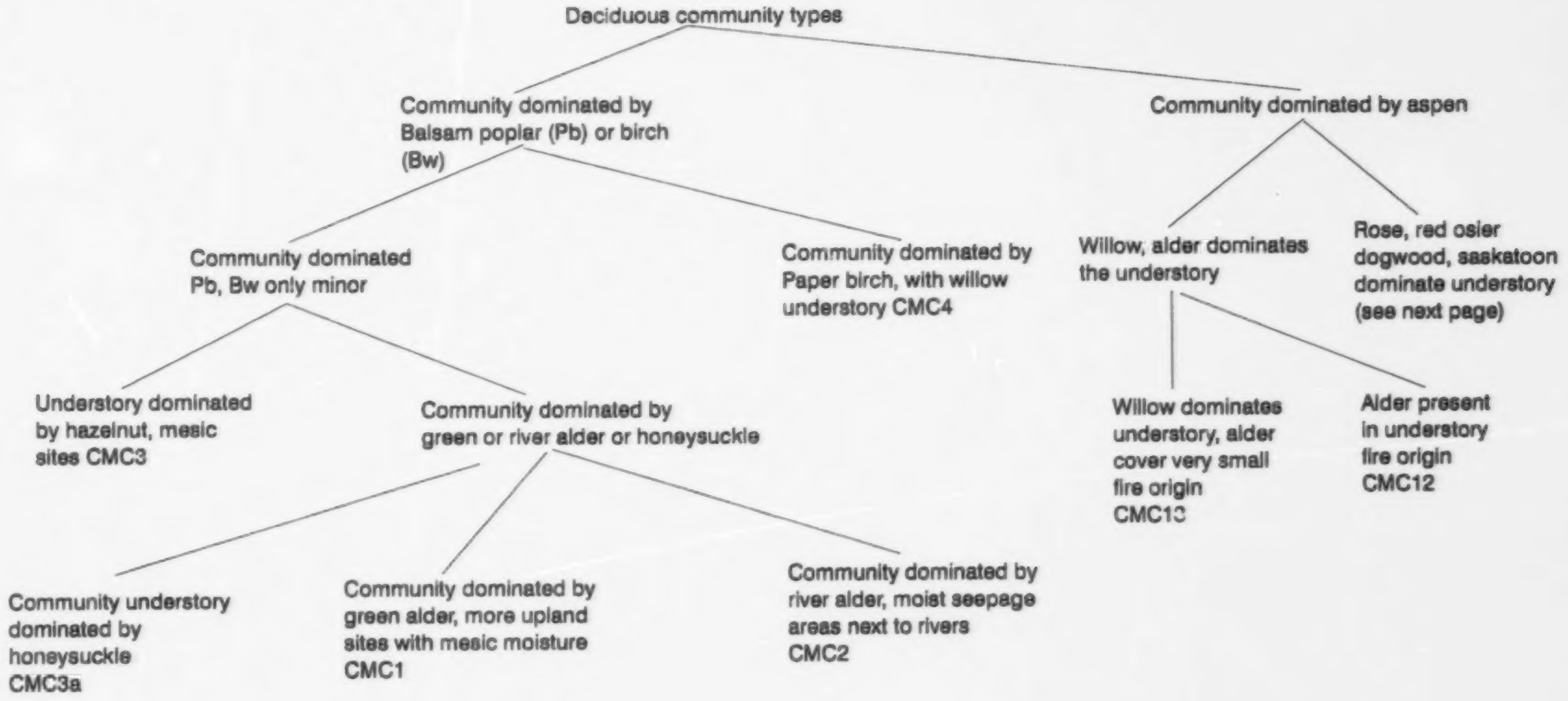
Figure 4 Sequence of Aspen/Rose dominated community types in the landscape of the Central Mixedwood subregion.

Table 9. Production (kg/ha) and grazing capacity (ha/AUM) for the ecosite phases, and deciduous community types described in the Central Mixedwood subregion

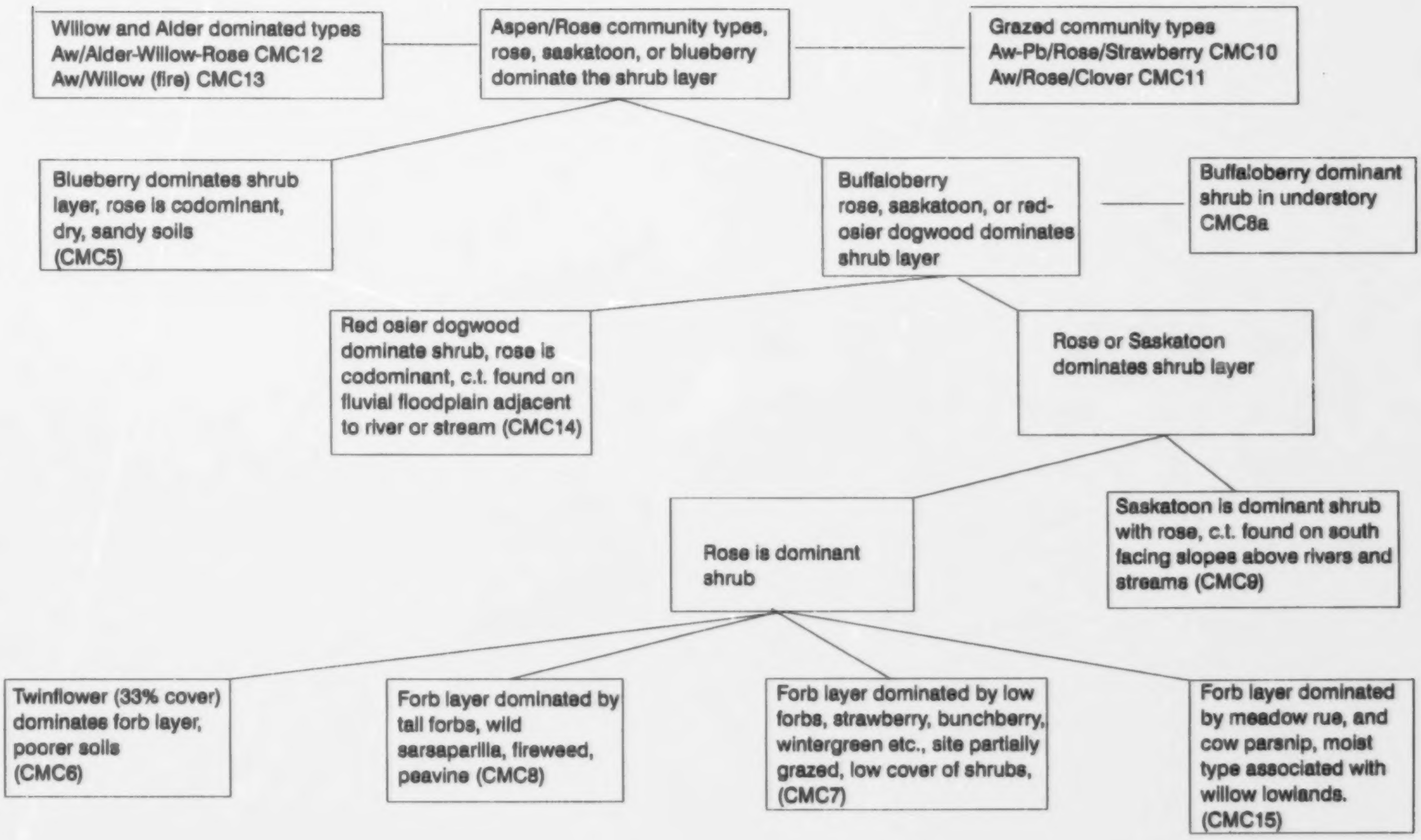
Community number	Community type	Productivity (kg/ha)				Ecosite	Grazing capacity (ha/AUM)
		Grass	Forb	Shrub	Total		
Ecosite phase	**b2 blueberry Aw**	**1005**	**169**	**138**	**1312**		**1.4**
CMC5	Aw/Blueberry	1005	169	138	1312	submesic/medium	1.4
Ecosite phase	**d1 low-bush cranberry Aw**	**174**	**327**	**291**	**792**		**2.5**
CMC3	Pb-Aw/Beaked hazelnut-Rose	222	272	411	905	mesic/medium	2.0
CMC8	Aw/Rose/Tall forb	202	352	257	811	mesic/medium	2.0
CMC8a	Aw/Buffaloberry-Rose	61	364	532	957	mesic/medium	2.0
CMC9	Aw/Rose-Saskatoon	25	279	111	415	mesic/medium	4.0
CMC12	Aw/Alder-Willow-Rose	75	200	225	499	mesic/medium	3.6
CMC13	Aw/Willow	461	493	209	1162	mesic/medium	1.6
Ecosite phase	**d1 grazed Aw**	**267**	**259**	**178**	**712**		**3.0**
CMC6	Aw/Rose/Twinflower	41	183	125	372	mesic/medium	4.9
CMC7	Aw/Rose/Low forb	253	334	235	837	mesic/medium	2.0

Table 9. Production (kg/ha) and grazing capacity (ha/AUM) for the ecosite phases, and deciduous community types described in the Central Mixedwood subregion

CMC10	Aw-Pb/Rose/Strawberry	259	327	128	709	mesic/medium	3.0
CMC11	Aw/Rose/Clover	512	192	224	928	mesic/medium	2.0
Ecosite phase	**e1 dogwood Pb-Aw**	**88**	**294**	**319**	**701**		**2.6**
CMC1	Pb/Rose-Alder	185	490	154	829	subhygric/rich	2.2
CMC2	Pb-Aw/River alder	7	193	340	540	subhygric/rich	Non-use
CMC3a	Aw-Pb/Honeysuckle	151	288	517	956	subhygric/rich	2.0
CMC14	Aw-Pb/Red Osier dogwood-Rose	7	205	265	479	subhygric/rich	Non-use
Ecosite phase	**f1 horsetail Pb-Aw**	**1292**	**1440**		**2732**		**0.7**
CMC15	Aw/Horsetail-Cow parsnip	1292	1440		2732	hygric/rich	0.7
Ecosite phase	**j2 shrubby poor fen**	**340**	**342**	**74**	**752**		**Non-use**
CMC4	Bw/Willow	340	342	74	752	subhydric/medium	Non-use


Deciduous community types
Community dominated by Balsam poplar (Pb) or birch (Bw)
Community dominated by aspen
Community dominated Pb, Bw only minor
Community dominated by Paper birch, with willow understory CMC4
Willow, alder dominates the understory
Rose, red osier dogwood, saskatoon dominate understory (see next page)
Understory dominated by hazelnut, mesic sites CMC3
Community dominated by green or river alder or honeysuckle
Willow dominates understory, alder cover very small fire origin CMC13
Alder present in understory fire origin CMC12
Community understory dominated by honeysuckle CMC3a
Community dominated by green alder, more upland sites with mesic moisture CMC1
Community dominated by river alder, moist seepage areas next to rivers CMC2

Key to balsam poplar, paper birch, aspen/alder-willow dominated communities in the Central Mixedwood subregion.


Willow and Alder dominated types
Aw/Alder-Willow-Rose CMC12
Aw/Willow (fire) CMC13
Aspen/Rose community types, rose, saskatoon, or blueberry dominate the shrub layer
Grazed community types
Aw-Pb/Rose/Strawberry CMC10
Aw/Rose/Clover CMC11
Blueberry dominates shrub layer, rose is codominant, dry, sandy soils (CMC5)
Buffaloberry rose, saskatoon, or red-osier dogwood dominates shrub layer
Buffaloberry dominant shrub in understory CMC8a
Red osier dogwood dominate shrub, rose is codominant, c.t. found on fluvial floodplain adjacent to river or stream (CMC14)
Rose or Saskatoon dominates shrub layer
Rose is dominant shrub
Saskatoon is dominant shrub with rose, c.t. found on south facing slopes above rivers and streams (CMC9)
Twinflower (33% cover) dominates forb layer, poorer soils (CMC6)
Forb layer dominated by tall forbs, wild sarsaparilla, fireweed, peavine (CMC8)
Forb layer dominated by low forbs, strawberry, bunchberry, wintergreen etc., site partially grazed, low cover of shrubs, (CMC7)
Forb layer dominated by meadow rue, and cow parsnip, moist type associated with willow lowlands. (CMC15)

Key to Aspen/Rose community types in the Central Mixedwood subregion

CMC1. Pb/Alder-Rose

(Populus balsamifera/ Alnus crispa- Rosa acicularis)

n=4 This community was found on moderately well-drained sites with subhygric moisture regimes. Beckingham (1993), described a similar community type. He found these forests to develop on parent materials that are neutral to alkaline, thus they tended to have a relatively high level of nutrient availability and potentially high production levels.

This commmunity is producing only a moderate forage base for domestic livestock. Green alder, which makes up a large part of the total forage production for this vegetation type, is generally unpalatable to livestock. This community type would be rated as secondary or non-use range.

PLANT COMPOSITION CANOPY COVER(%)

	MEAN	RANGE	CONST.
TREES			
TREMBLING ASPEN *(Populus tremuloides)*	1	0-2	25
BALSAM POPLAR *(Populus balsamifera)*	50	10-65	100
SHRUBS			
PRICKLY ROSE *(Rosa acicularis)*	13	6-16	100
GREEN ALDER *(Alnus crispa)*	21	12-40	100
LOW BUSH CRANBERRY *(Viburnum edule)*	8	0-16	75
FORBS			
STRAWBERRY *(Fragaria virginiana)*	5	1-10	100
TWINFLOWER *(Linnaea borealis)*	1	0-4	75
NORTHERN BEDSTRAW *(Galium boreale)*	4	0-8	75
TALL LUNGWORT *(Mertensia paniculata)*	4	3-7	100
YELLOW PEAVINE *(Lathyrus ochroleucus)*	4	1-6	100
WILD SARSAPARILLA *(Aralia nudicaulis)*	1	0-2	25
GRASSES			
MARSH REEDGRASS *(Calamagrostis canadensis)*	6	2-8	100

ENVIRONMENTAL VARIABLES

MOISTURE REGIME:
SUBHYGRIC
NUTRIENT REGIME:
MESOTROPHIC
ELEVATION:
567 M

SOIL DRAINAGE:
MODERATELY WELL

FORAGE PRODUCTION(KG/HA)

GRASS	185(0-552)
FORBS	490(234-978)
SHRUBS	154(0-250)
TOTAL	829(474-1530)

SUGGESTED GRAZING CAPACITY
2.2 HA/AUM

CMC2. Pb-Aw/River alder

(Populus balsamifera-Populus tremuloides/Alnus tenuifolia)

n=4 This community type is found on moist lower slope positions. A similar community type was described on similar sites in the Lower Foothills subregion (Willoughby and Downing 1995). The high cover of alder limits the light reaching the understory and results in low production of grass and forbs. The majority of the total forage production comes from alder which is generally inaccessible and unpalatable to livestock. Consequently this community type would be rated as non-use for domestic livestock.

PLANT COMPOSITION CANOPY COVER(%)

	MEAN	RANGE	CONST.
TREES			
TREMBLING ASPEN *(Populus tremuloides)*	23	0-35	75
BALSAM POPLAR *(Populus balsamifera)*	26	19-45	100
SHRUBS			
RIVER ALDER *(Alnus tenuifolia)*	27	7-35	100
RED OSIER DOGWOOD *(Cornus stolonifera)*	10	5-17	100
BRACTED HONEYSUCKLE *(Lonicera involucrata)*	3	0-10	25
PRICKLY ROSE *(Rosa acicularis)*	9	4-18	100
LOW BUSH CRANBERRY *(Viburnum edule)*	4	1-10	100
FORBS			
HORSETAIL *(Equisetum arvense)*	14	1-45	100
DEWBERRY OR RUNNING RASPBERRY *(Rubus pubescens)*	6	1-8	100
BISHOP'S CAP *(Mitella nuda)*	4	0-7	75
WILD STRAWBERRY *(Fragaria virginiana)*	3	2-4	75
LINDLEY'S ASTER *(Aster ciliolatus)*	2	2-4	75
YELLOW PEAVINE *(Lathyrus ochroleucus)*	3	2-5	75
WILD SARSAPARILLA *(Aralia nudicaulis)*	2	0-7	50
GRASSES			
MARSH REED GRASS *(Calamagrostis canadensis)*	1	0-4	75

ENVIRONMENTAL VARIABLES

MOISTURE REGIME:
SUBHYGRIC TO HYGRIC

NUTRIENT REGIME:
PERMESOTROPHIC

ELEVATION:
454(150-606) M

PERCENT SLOPE GRADIENT:
0 - 2

SOIL DRAINAGE:
MODERATELY WELL

FORAGE PRODUCTION(KG/HA)

GRASS	7(2-20)
FORBS	193(62-376)
SHRUBS	340(200-438)
TOTAL	540(202-816)

SUGGESTED GRAZING CAPACITY
NON-USE

CMC3. Pb-Aw/Beaked hazelnut-Rose

(Populus balsamifera-Populus tremuloides/Corylus cornuta-Rosa acicularis)

n=2 This community type was described on south facing slopes and is very similar to the the beaked hazelnut communities described in the Dry Mixedwood subregion. This type appears to occupy warmer and drier microsites that resemble the Dry Mixedwood's climate. The total production of this type is high, but the majority of production is coming from hazelnut which is largely unpalatable to livestock at proper stocking levels. The high cover of hazelnut also restricts access to livestock, limiting the forage availability. This community would be rated as secondary range.

PLANT COMPOSITION CANOPY COVER(%)

	MEAN	RANGE	CONST.
TREES			
TREMBLING ASPEN *(Populus tremuloides)*	33	25-40	100
BALSAM POPLAR *(Populus balsamifera)*	33	0-65	50
SHRUBS			
HAZELNUT *(Corylus cornuta)*	23	13-32	100
SASKATOON *(Amelanchier alnifolia)*	6	0-12	50
WILD RED RASPBERRY *(Rubus idaeus)*	6	0-11	50
PRICKLY ROSE *(Rosa acicularis)*	8	4-12	100
FORBS			
WILD LILY-OF-THE-VALLEY *(Maianthemum canadense)*	5	1-8	100
DEWBERRY OR RUNNING RASPBERRY *(Rubus pubescens)*	6	0-12	50
YELLOW PEAVINE *(Lathyrus ochroleucus)*	4	1-6	100
VEINY MEADOW RUE *(Thalictrum venulosum)*	3	2-3	100
WILD SARSAPARILLA *(Aralia nudicaulis)*	11	0-23	50
GRASSES			
MARSH REED GRASS *(Calamagrostis canadensis)*	5	0-9	50
MOUNTAIN RICEGRASS (*Oryzopsis asperifolia)*	3	0-7	50
SEDGE (*Carex spp.*)	5	0-10	50

ENVIRONMENTAL VARIABLES

MOISTURE REGIME:
MESIC TO SUBHYGRIC
NUTRIENT REGIME:
MESOTROPHIC TO PERMESOTROPHIC
ELEVATION:
588(576-600) M
PERCENT SLOPE GRADIENT:
5-10 (7.5)%
SOIL DRAINAGE:
WELL TO MODERATELY WELL

FORAGE PRODUCTION(KG/HA)

GRASS	222(74-370)
FORBS	272(234-310)
SHRUBS	411(152-670)
TOTAL	905(756-1054)

SUGGESTED GRAZING CAPACITY
2.0 HA/AUM

CMC3a. Aw-Pb/Honeysuckle

(Populus tremuloides- Populus balsamifera /Lonicera involcrata)

n=1 This community type is represented by one of the Public Lands Peace River benchmark sites. It is a relatively moist and nutrient rich site and represents the honeysuckle ecosite as described by Beckingham and Archibald (1996). The high tree and shrub layer limit the amount of light reaching the forest floor. Consquently, there is little growth of grasses and forbs. Shrub production is largely honeysuckle which is generally unpalatable to domestic livestock. This community type should be rated as secondary range.

PLANT COMPOSITION CANOPY COVER(%)

	MEAN	RANGE	CONST.
TREES			
TREMBLING ASPEN *(Populus tremuloides)*	60	-	100
BALSAM POPLAR *(Populus balsamifera)*	20	-	100
SHRUBS			
HONEYSUCKLE *(Lonicera involcrata)*	31	-	100
SASKATOON *(Amelanchier alnifolia)*	2	-	100
WILD RED RASPBERRY *(Rubus idaeus)*	13	-	100
PRICKLY ROSE *(Rosa acicularis)*	-	-	100
FORBS			
FIREWEED *(Epilobium angustifolium)*	5	-	100
DEWBERRY OR RUNNING RASPBERRY *(Rubus pubescens)*	5	-	100
OAK FERN *(Gymnocarpium dryopteris)*	5	-	100
WINTERGREEN *(Pyrola asarifolia)*	2	-	100
WILD SARSAPARILLA *(Aralia nudicaulis)*	6	-	100
GRASSES			
MARSH REED GRASS *(Calamagrostis canadensis)*	9	-	100

ENVIRONMENTAL VARIABLES

MOISTURE REGIME:
SUBHYGRIC
NUTRIENT REGIME:
PERMESOTROPHIC
ELEVATION:
869 M
SOIL DRAINAGE:
WELL TO MODERATELY WELL

FORAGE PRODUCTION(KG/HA)

GRASS	151
FORBS	288
SHRUBS	517
TOTAL	956

SUGGESTED GRAZING CAPACITY
2.0 HA/AUM

CMC4. Bw/Willow

(Betula papyrifera/Salix spp.)

n=1 This community type was described on a very moist site that was burned or cleared and is now undergoing succession to a paper birch dominated community type. The understory of this community type is dominated by sphagnum moss, which is characteristic of the poor fen ecosite described by Beckingham and Archibald (1996). The site was likely dominated by black spruce and larch prior to disturbance. The poor nutrient status and very moist conditions make this community type unsuitable for livestock grazing. This community type should be rated as non-use.

PLANT COMPOSITION CANOPY COVER(%)

	MEAN	RANGE	CONST.
TREES			
PAPER BIRCH *(Betula papyrifera)*	55	-	100
SHRUBS			
WILLOW *(Salix spp.)*	50	-	100
FORBS			
SMALL BOG CRANBERRY *(Oxycoccus microcarpus)*	25	-	100
SWAMP HORSETAIL *(Equisetum fluviatile)*	19	-	100
MARSH CINQUEFOIL *(Potentilla palustris)*	12	-	100
GRASSES			
MARSH REED GRASS *(Calamagrostis canadensis)*	7	-	100
HAIR-LIKE SEDGE (*Carex capillaris*)	6	-	100
BEAKED SEDGE (*Carex rostrata*)	6	-	100
MOSSES			
PEAT MOSS (*Sphagnum spp.*)	93	-	100

ENVIRONMENTAL VARIABLES

MOISTURE REGIME:
SUBHYDRIC

NUTRIENT REGIME:
MESOTROPHIC

ELEVATION:
576 M

SOIL DRAINAGE:
VERY POOR

FORAGE PRODUCTION(KG/HA)

GRASS	340
FORBS	342
SHRUBS	74
TOTAL	756

SUGGESTED GRAZING CAPACITY
NON-USE

CMC5. Aw/Blueberry

(Populus tremuloides/ Vaccinium myrtilloides)

n=4 This is a very dry, well-drained community type with sandy soil. It is found in conjunction with jack pine stands. Productivity of shrubs is largely blueberry, which is unpalatable to livestock.

These stands tend to be relatively open allowing for easy access by livestock, but the dry site conditions and poorer nutrient status limit the amount of regrowth after grazing. If this community type is managed for one rotation a year, it can contribute significantly to the overall carrying capacity of a lease.

PLANT COMPOSITION

	CANOPY COVER(%)		
	MEAN	RANGE	CONST.
TREES			
TREMBLING ASPEN *(Populus tremuloides)*	45	35-60	100
SHRUBS			
WILLOW *(Salix spp.)*	5	0-20	50
WILD RED RASPBERRY *(Rubus idaeus)*	2	0-5	50
BLUEBERRY *(Vaccinium myrtilloides)*	20	11-37	100
PRICKLY ROSE *(Rosa acicularis)*	11	6-16	100
FORBS			
BUNCHBERRY *(Cornus canadensis)*	7	1-21	100
BEARBERRY *(Arctostaphylos uva-ursi)*	3	0-13	25
YELLOW PEAVINE *(Lathyrus ochroleucus)*	4	1-8	100
TWINFLOWER *(Linnaea borealis)*	4	0-7	75
STRAWBERRY *(Fragaria virginiana)*	4	1-5	100
GRASSES			
PURPLE OATGRASS *(Schizachne purpurascens)*	3	0-7	75
HAIRY WILDRYE *(Elymus innovatus)*	5	0-10	75
MOUNTAIN RICEGRASS *(Oryzopsis asperfolia)*	3	1-6	100

ENVIRONMENTAL VARIABLES

MOISTURE REGIME:
SUBMESIC

NUTRIENT REGIME:
MESOTROPHIC

ELEVATION:
604(600-606) M

SOIL DRAINAGE:
WELL

FORAGE PRODUCTION(KG/HA)

GRASS	1005(98-1794)
FORBS	169(0-388)
SHRUBS	138(0-452)
TOTAL	1312(762-1794)

SUGGESTED GRAZING CAPACITY
1.4 HA/AUM

CMC6. Aw/Rose/Twinflower

(Populus tremuloides/ Rosa acicularis/Linnaea borealis)

n=6 This community type has been grazed moderately to heavily and is very similar to the grazed Pb/Rose/Strawberry and Aw/Rose/Low forb community types. Grazing pressure reduces the cover of shrubs and tall-growing forbs and allows the low-growing forbs to increase in cover. This community type occupies soils with poor nutrient regimes. The poor nutrient status appears to favour the growth of twinflower, a species that is well adapted to growing on poor soils (Corns and Annas 1986). This may explain why twinflower is predominant on this community type and not on the other grazed community types.

PLANT COMPOSITION

	CANOPY COVER(%)		
	MEAN	RANGE	CONST.
TREES			
BALSAM POPLAR			
(Populus balsamifera)	3	0-15	17
TREMBLING ASPEN			
(Populus tremuloides)	53	25-75	100
SHRUBS			
PRICKLY ROSE			
(Rosa acicularis)	11	6-18	100
WILD RED RASPBERRY			
(Rubus idaeus)	1	0-1	50
LOW BUSH CRANBERRY			
(Viburnum edule)	2	0-7	83
SNOWBERRY OR BUCKBRUSH			
(Symphoricarpos occidentalis)	3	1-5	100
FORBS			
CREAM-COLOURED VETCHLING			
(Lathyrus ochroleucus)	3	1-7	100
BUNCHBERRY			
(Cornus canadensis)	5	1-10	100
TWINFLOWER			
(Linnaea borealis)	19	11-31	100
STRAWBERRY			
(Fragaria virginiana)	5	2-9	100
WINTER GREEN			
(*Pyrola asarifolia*)	3	1-7	100
GRASSES			
MOUNTAIN RICEGRASS			
(Oryzopsis asperifolia)	1	0-7	33
HAIRY WILDRYE			
(*Elymus innovatus*)	3	0-5	83
PURPLE OATGRASS			
(*Schizachne purpurascens*)	3	0-5	83
KENTUCKY BLUEGRASS			
(*Poa pratensis*)	2	0-6	83

ENVIRONMENTAL VARIABLES

MOISTURE REGIME:
SUBMESIC TO MESIC

NUTRIENT REGIME:
MESOTROPHIC

ELEVATION:
634(579-733) M

PERCENT SLOPE GRADIENT:
2(0-5)%

SOIL DRAINAGE:
WELL

FORAGE PRODUCTION(KG/HA)

GRASS	56(6-134)
FORBS	230(70-464)
SHRUBS	120(16-294)
TOTAL	406(190-692)

SUGGESTED GRAZING CAPACITY
4.9 HA/AUM

CMC7. Aw/Rose/Low forb

(Populus tremuloides/Rosa acicularis/Low forb)

n=15 This type occupies mesic, well-drained sites with medium nutrient regimes. This type is similar to the Aw/Rose/Tall forb community type, but this type appears to occupy drier sites with poorer nutrient regimes. It has also been observed that this type can also be produced when the tall forb community is grazed for a number of years. The increased grazing pressure may explain why the production on this type is lower than the tall forb type.

Forage production in this type is good, but the low-growing forbs are not as accessible to livestock as the tall growing forbs. Despite these limitations this community type should still be rated as primary range.

PLANT COMPOSITION CANOPY COVER(%)

	MEAN	RANGE	CONST.
TREES			
TREMBLING ASPEN *(Populus tremuloides)*	49	25-70	100
BALSAM POPLAR (*Populus balsamifera*)	8	0-20	53
WHITE SPRUCE (*Picea glauca*)	2	0-8	47
SHRUBS			
SASKATOON *(Amelanchier alnifolia)*	3	0-16	53
PRICKLY ROSE *(Rosa acicularis)*	16	4-42	100
WILD RED RASPBERRY *(Rubus idaeus)*	6	0-23	73
SNOWBERRY *(Symphoricarpos occidentalis)*	8	0-36	80
LOW BUSH CRANBERRY (*Viburnum edule*)	3	0-9	73
FORBS			
STRAWBERRY *(Fragaria virginiana)*	5	0-10	93
FIREWEED (*Epilobium angustifolium*)	3	0-10	80
YELLOW PEAVINE (*Lathyrus ochroleucus*)	3	0-11	73
DEWBERRY OR RUNNING RASPBERRY *(Rubus pubescens)*	4	0-10	73
LINDLEY'S ASTER *(Aster ciliolatus)*	3	0-8	73
GRASSES			
MARSH REED GRASS *(Calamagrostis canadensis)*	6	0-20	93
HAIRY WILDRYE (*Elymus innovatus*)	3	0-12	53

ENVIRONMENTAL VARIABLES

MOISTURE REGIME:
MESIC
NUTRIENT REGIME:
MESOTROPHIC
ELEVATION:
617(579-667) M
PERCENT SLOPE GRADIENT:
3(0-15)%
ASPECT:
VARIABLE
SOIL DRAINAGE:
WELL TO MODERATELY WELL

FORAGE PRODUCTION(KG/HA)

GRASS	250(6-660)
FORBS	335(76-830)
SHRUBS	270(38-1154)
TOTAL	842(312-2086)

SUGGESTED GRAZING CAPACITY
2.0 HA/AUM

CMC8. Aw/Rose/Tall forb

(Populus tremuloides/Rosa acicularis/Tall forb)

n=16 This type appears to be the modal aspen community type in the absence of disturbance on mesic, medium to rich sites. The presence of tall forbs wild sarsaparilla, fireweed, and peavine distinguish this community from the low forb type. It is unclear why there is a difference in the tall and low forb types. Corns and Annas (1986) recoqnized the two types in the Lower Foothills subregion. They felt the wild sarsaparilla type was moister and had a higher nutrient regime. It has also been observed that the low forb type can be produced when the tall forb community is lightly to moderately grazed for a number of years (Willoughby 1996).

The forage production on this community type is good. The majority of the vegetation is palatable to livestock. This community type would be rated as primary range for domestic livestock. Wild sarsaparilla, a major component of this community type appears to be very sensitive to any disturbance by livestock.

Plant Composition Canopy Cover(%)

	Mean	Range	Const.
Trees			
Balsam Poplar *(Populus balsamifera)*	9	0-30	50
Trembling Aspen *(Populus tremuloides)*	49	10-75	100
Shrubs			
Red osier dogwood *(Cornus stolonifera)*	3	0-7	56
Wild red raspberry *(Rubus ideaus)*	2	0-5	69
Prickly rose *(Rosa acicularis)*	16	5-33	100
Low bush cranberry (*Viburnum edule*)	8	0-26	88
Forbs			
Wild sarsaparilla *(Aralia nudicaulis)*	21	6-69	100
Yellow peavine *(Lathyrus ochroleucus)*	4	1-12	100
Dewberry *(Rubus pubescens)*	5	0-15	88
Lindley's Aster *(Aster ciliolatus)*	1	0-2	81
Fireweed (*Epilobium angustifolium*)	5	0-19	81
Strawberry (*Fragaria virginiana*)	3	0-9	81
Grasses			
Marsh Reed Grass *(Calamagrostis canadensis)*	7	2-21	100

Environmental Variables

Moisture Regime:
Mesic
Nutrient Regime:
mesotrophic to Permesotrophic
Elevation:
617(576-697)m

Soil Drainage:
well

Forage Production(kg/ha)

Grass	188(3-812)
Forbs	379(179-480)
Shrubs	318(60-1058)
Total	884(459-1470)

Suggested grazing capacity
2.0 ha/AUM

CMC8a. Aw/Buffaloberry-Rose

(Populus tremuloides/Shepherdia canadensis-Rosa acicularis)

n=1 This community type was found on a mesic site at higher elevations in the Central Mixedwood subregion west of Beaverlodge. Beckingham (1993) felt the Aw/Buffaloberry type was slightly drier and had a slightly poorer nutrient regime than the modal Aw/Rose community types. This type is providing a moderate amount of forage for domestic livestock, but the drier site conditions and poorer nutrient status will limit regrowth after grazing. Buffaloberry the predominant shrub species in this community type, is generally unpalatable to livestock.

PLANT COMPOSITION

	CANOPY COVER(%)		
	MEAN	RANGE	CONST.
TREES			
TREMBLING ASPEN *(Populus tremuloides)*	75	-	100
SHRUBS			
BUFFALOBERRY *(Shepherdia canadensis)*	26	-	100
PRICKLY ROSE *(Rosa acicularis)*	11	-	100
LOW BUSH CRANBERRY (*Viburnum edule*)	13	-	100
FORBS			
BUNCHBERRY *(Cornus canadensis)*	16	-	100
YELLOW PEAVINE *(Lathyrus ochroleucus)*	2	-	100
DEWBERRY *(Rubus pubescens)*	2	-	100
FIREWEED (*Epilobium angustifolium*)	6	-	100
STRAWBERRY (*Fragaria virginiana*)	3	-	100
GRASSES			
MARSH REED GRASS *(Calamagrostis canadensis)*	2	-	100

ENVIRONMENTAL VARIABLES

MOISTURE REGIME:
MESIC
NUTRIENT REGIME:
MESOTROPHIC TO SUBMESOTROPHIC
ELEVATION:
800M

SOIL DRAINAGE:
WELL

FORAGE PRODUCTION(KG/HA)

GRASS	61
FORBS	364
SHRUBS	532
TOTAL	957

SUGGESTED GRAZING CAPACITY
2.0 HA/AUM

CMC9. Pb-Aw/Rose-Saskatoon

(Populus balsamifera-Populus tremuloides/Rosa acicularis-Amelanchier alnifolia)

n=2 This community type is found on mesic, well drained south facing slopes that overlook rivers and creeks. This community is also similar to the Aw/Saskatoon-Rose community that was described in the Dry Mixedwood subregion. Both community types occur on south and west facing slopes. Saskatoon provides important browse for wild ungulates. Livestock also find saskatoon palatable and in areas where there is extensive cattle grazing this species can be heavily browsed.

PLANT COMPOSITION CANOPY COVER(%)

	MEAN	RANGE	CONST.
TREES			
ASPEN *(Populus tremuloides)*	20	5-35	100
BALSAM POPLAR *(Populus balsamifera)*	44	7-80	100
SHRUBS			
PRICKLY ROSE *(Rosa acicularis)*	22	6-38	100
SASKATOON *(Amelanchier alnifolia)*	25	5-45	100
RED OSIER DOGWOOD *(Cornus stolonifera)*	7	5-8	100
RIVER ALDER *(Alnus tenuifolia)*	8	0-15	50
WILLOW *(Salix spp.)*	8	0-15	50
FORBS			
HORSETAIL *(Equisetum arvense)*	3	1-3	100
BUNCHBERRY *(Cornus canadensis)*	1	0-1	50
TALL LUNGWORT *(Mertensia paniculata)*	2	0-3	50
DEWBERRY *(Rubus pubescens)*	3	2-3	100
YELLOW PEAVINE *(Lathyrus ochroleucus)*	4	0-8	50
WILD SARSAPARILLA *(Aralia nudicaulis)*	3	0-5	50
STRAWBERRY *(Fragaria virginiana)*	4	0-7	50
GRASSES			
MOUNTAIN RICEGRASS *(Oryzopsis asperifolia)*	1	0-1	50

ENVIRONMENTAL VARIABLES

MOISTURE REGIME:
MESIC
NUTRIENT REGIME:
MESOTROPHIC
ELEVATION:
606 M
SOIL DRAINAGE:
WELL TO RAPIDLY
SLOPE:
26(2-50)%
ASPECT:
WESTERLY

FORAGE PRODUCTION(KG/HA)

GRASS	25(0-50)
FORBS	279(240-318)
SHRUBS	111(10-212)
TOTAL	415(250-580)

SUGGESTED GRAZING CAPACITY
4.0 HA/AUM

CMC10. Aw-Pb/Rose/Strawberry

(Populus tremuloides-Populus balsamifera/Rosa acicularis/Fragaria virginiana)

n=4 This community type appears to have been moderately grazed in the past. As grazing pressure becomes heavy, there is a reduction in shrub, tall forbs and native grass cover and an increase in cover of low growing forbs(dandelion and strawberry). Continued heavy grazing pressure eventually leads to a decline in all native plants and Kentucky bluegrass, clover and dandelion will predominate in the understory (Willoughby 1996). The forage production on this community type is only moderate and is slightly less than other Aw and Pb dominated community types. A period of rest would greatly benefit the production on this community type.

PLANT COMPOSITION CANOPY COVER(%)

	MEAN	RANGE	CONST.
TREES			
WHITE BIRCH *(Betula papyrifera)*	3	0-10	25
BALSAM POPLAR *(Populus balsamifera)*	28	10-45	100
ASPEN (*Populus tremuloides*)	41	0-50	75
SHRUBS			
PRICKLY ROSE *(Rosa acicularis)*	14	6-25	100
LOW BUSH CRANBERRY *(Viburnum edule)*	1	0-5	25
SNOWBERRY OR BUCKBRUSH *(Symphoricarpos occidentalis)*	6	1-14	100
WILD RED RASPBERRY *(Rubus idaeus)*	2	0-4	50
FORBS			
WILD STRAWBERRY *(Fragaria virginiana)*	13	1-30	100
DANDELION *(Taraxacum officinale)*	3	1-6	100
DEWBERRY OR RUNNING RASPBERRY *(Rubus pubescens)*	2	0-5	75
NORTHERN BEDSTRAW *(Galium boreale)*	2	1-3	100
LINDLEY'S ASTER (*Aster ciliolatus)*	3	1-4	100
FIREWEED (*Epilobium angustifolium*)	2	0-3	75
GRASSES			
MARSH REED GRASS (*Calamagrostis canadensis)*	7	1-16	100

ENVIRONMENTAL VARIABLES

MOISTURE REGIME:
MESIC TO SUBHYGRIC

NUTRIENT REGIME:
MESOTROPHIC

ELEVATION:
576-606(584) M

PERCENT SLOPE GRADIENT:
LEVEL

SOIL DRAINAGE:
WELL TO MODERATELY WELL

FORAGE PRODUCTION(KG/HA)

GRASS	259(0-617)
FORBS	327(142-524)
SHRUBS	128(23-234)
TOTAL	709(496-916)

SUGGESTED GRAZING CAPACITY
3.0 HA/AUM

CMC11. Aw/Rose/Clover

(Populus tremuloides/Rosa acicularis/Trifolium spp.)

n=1 This community type is represented by aspen stands that have recieved moderate to heavy grazing pressure for a number of years. As a result, native forbs have declined and clover has increased in the understory. A small portion of the original shrub and tall forb understory still remains. Although, grass production has dropped, forb production remains high due to the dense cover of clover. This community has not been grazed as long as the Aw/Kentucky bluegrass/Clover community type (Willoughby 1996).

PLANT COMPOSITION

	CANOPY COVER(%)		
	MEAN	RANGE	CONST.
TREES			
TREMBLING ASPEN			
(Populus tremuloides)	30	-	100
BALSAM POPLAR			
(Populus balsamifera)	18	-	100
SHRUBS			
WILD RED RASPBERRY			
(Rubus idaeus)	3	-	
100PRICKLY ROSE			
(Rosa acicularis)	5	-	100
FORBS			
CLOVER			
(Trifolium sp.)	18	-	100
DANDELION			
(Taraxacum officinale)	4	-	100
WILD STRAWBERRY			
(Fragaria virginiana)	1	-	100
HORSETAIL			
(Equisetum arvense)	4	-	100
WILD LILY-OF-THE-VALLEY			
(Maianthemum canadense)	1	-	100
GRASSES			
MARSH REED GRASS			
(Calamagrostis canadensis)	2	-	100
KENTUCKY BLUEGRASS			
(Poa pratensis)	10	-	100
CREEPING RED FESCUE			
(Festuca rubra)	5	-	100

ENVIRONMENTAL VARIABLES

MOISTURE REGIME:
MESIC

NUTRIENT REGIME:
MESOTROPHIC

ELEVATION:
606 M

SOIL DRAINAGE:
WELL

FORAGE PRODUCTION(KG/HA)

GRASS	512
FORBS	192
SHRUBS	224
TOTAL	928

SUGGESTED GRAZING CAPACITY
2.0 HA/AUM

CMC12. Aw/Alder-Willow-Rose

(Populus tremuloides/ Alnus crispa-Salix spp.-Rosa acicularis)

n=13 This community type is scattered throughout the Central Mixedwood subregion on mainly mesic to subhygric, well-drained sites. This community is likely of fire origin. Many of the plots were described from a large fire that burned through the area in 1968. The aspen trees are also young and very dense. The high cover of aspen, alder, and willow limits the amount of light reaching the understory. Consequently, there is little forage available for domestic livestock. This community type would be rated as secondary or non-use range.

Plant Composition Canopy Cover(%)

	Mean	Range	Const.
Trees			
Trembling Aspen *(Populus tremuloides)*	59	30-90	100
Shrubs			
Prickly Rose *(Rosa acicularis)*	11	0-23	92
Blueberry *(Vaccinium myrtilloides)*	1	0-2	31
Willow *(Salix spp.)*	12	0-43	61
Green Alder (*Alnus crispa*)	31	0-85	92
Forbs			
Bunchberry *(Cornus canadensis)*	10	0-26	92
Wild Strawberry *(Fragaria virginiana)*	2	0-6	61
Twinflower *(Linnaea borealis)*	11	0-45	85
Dewberry *(Rubus pubescens)*	4	0-10	85
Wild Lily-of-the-Valley (*Maianthemum canadense*)	2	0-6	77
Yellow Peavine (*Lathyrus ochroleucus*)	2	0-9	69
Grasses			
Marsh Reed Grass *(Calamagrostis canadensis)*	5	0-19	92
Hairy Wildrye *(Elymus innovatus)*	1	0-2	39
Mountain Ricegrass (*Oryzopsis asperfolia*)	T	0-2	15

Environmental Variables

Moisture Regime:
Mesic to subhygric

Nutrient Regime:
Mesotrophic to permesotrophic

Elevation:
635(333-758) m

Percent Slope Gradient:
5(0-15)%

Soil Drainage:
well To Moderately well

FORAGE PRODUCTION(KG/HA)

Grass	75(8-350)
Forbs	200(2-476)
Shrubs	225(5-660)
Total	499(100-930)

Suggested Grazing Capacity
3.6 ha/AUM

CMC13. Aw/Willow

(Populus tremuloides/Salix spp.)

n=4 This community type is similar to the Aw/Alder-Willow-Rose community type, but lacks the cover of alder. Previously, this community type was split into four community types (Willoughby and Downing 1995). These included the Aw/Willow-Rose/Twinflower, Aw/Willow-Rose/Bunchberry, Aw/Rose-Willow-Pin cherry/Fireweed and Aw/Rose-Willow-Saskatoon. All four community types appeared to have had a fire origin, but had slightly different moisture and nutrient regimes which affected forage productivity. Productivity varied from 1326 to 1306 kg/ha on the Aw/Willow-Rose/Bunchberry and Aw/Rose-Willow-Pin cherry/Fireweed types to 606 kg/ha on the Aw/Willow-Rose/Twinflower type. Because the sample size was so small it was felt to be impractical to split the four community types and they were lumped into this one type for the purpose of this guide. As this community undergoes succession forage productivity will decline.

PLANT COMPOSITION CANOPYCOVER(%)

	MEAN	RANGE	CONST.
TREES			
TREMBLING ASPEN *(Populus tremuloides)*	53	40-68	100
SHRUBS			
PRICKLY ROSE *(Rosa acicularis)*	13	11-15	100
WILLOW SPP. *(Salix spp.)*	27	15-35	100
LOW BUSH CRANBERRY *(Viburnum edule)*	4	0-12	75
FORBS			
BUNCHBERRY *(Cornus canadensis)*	13	2-30	100
WILD SARSAPARILLA *(Aralia nudicaulis)*	9	0-18	75
YELLOW PEAVINE *(Lathyrus ochroleucus)*	5	1-10	100
DEWBERRY *(Rubus pubescens)*	7	2-12	100
WILD LILY-OF-THE-VALLEY *(Maianthemum canadense)*	6	3-11	100
FIREWEED *(Epilobium angustifolium)*	11	3-32	100
TWINFLOWER *(Linnaea borealis)*	5	1-11	100
GRASSES			
MARSH REED GRASS *(Calamagrostis canadensis)*	7	1-13	100
HAIRY WILDRYE *(Elymus innovatus)*	4	1-10	100

ENVIRONMENTAL VARIABLES

MOISTURE REGIME:
MESIC TO SUBHYGRIC

NUTRIENT REGIME:
MESOTROPHIC TO PERMESOTROPHIC

ELEVATION:
542(333-636) M

SOIL DRAINAGE:
WELL TO MODERATELY WELL

FORAGE PRODUCTION(KG/HA)

GRASS	461(2-708)
FORBS	493(362-552)
SHRUBS	209(107-378)
TOTAL	1162(606-1367)

SUGGESTED GRAZING CAPACITY
1.6 HA/AUM

CMC14. Aw-Pb/Red osier dogwood-Rose

(Populus tremuloides-P. balsamifera/Cornus stolonifera-Rosa acicularis)

n=4 This community is typical of river floodplains throughout the Central Mixedwood subregion. This community has a subhygric moisture and rich nutrient regime. Beckingham and Archibald (1996) found this community type on mid to lower slope topographic positions or near water courses where they recieve nutrient-rich seepage or flood waters for a portion of the growing season. This community type is one of the most productive in the Central Mixedwood, but the high cover of shrubs limits access to livestock. The high cover of tall growing shrubs (alder, red osier dogwood) also limits the growth of low shrubs, forbs and grass the principle forage species for domestic livestock in deciduous forests. As a result, this community should be rated as secondary or non-use range.

PLANT COMPOSITION CANOPY COVER(%)

	MEAN	RANGE	CONST.
TREES			
TREMBLING ASPEN *(Populus tremuloides)*	44	25-70	100
BALSAM POPLAR (*Populus balsamifera*)	16	0-25	75
SHRUBS			
PRICKLY ROSE *(Rosa acicularis)*	10	0-26	75
RED OSIER DOGWOOD *(Cornus stolonifera)*	28	19-40	100
GREEN ALDER (*Alnus crispa*)	2	0-5	50
FORBS			
LADY FERN *(Athyrium filix-femina)*	2	0-11	25
WILD SARSAPARILLA *(Aralia nudicaulis)*	4	0-10	75
DEWBERRY *(Rubus pubescens)*	3	0-6	50
WILD LILY-OF-THE-VALLEY (*Maianthemum canadense*)	3	0-10	75
YELLOW PEAVINE (*Lathyrus ochroleucus*)	4	1-6	100
GRASSES			
MARSH REED GRASS *(Calamagrostis canadensis)*	3	1-10	100
HAIRY WILDRYE *(Elymus innovatus)*	T	0-1	50

ENVIRONMENTAL VARIABLES

MOISTURE REGIME:
SUBHYGRIC

NUTRIENT REGIME:
PERMESOTROPHIC

ELEVATION:
602(600-606)M

SLOPE PERCENT:
2(1-3)%

SOIL DRAINAGE:
MODERATELY WELL

FORAGE PRODUCTION(KG/HA)

GRASS	7(2-22)
FORBS	205(66-372)
SHRUBS	265(20-358)
TOTAL	476(226-714)

SUGGESTED GRAZING CAPACITY
NON-USE

CMC15. Aw/Horsetail-Cow parsnip

(Populus tremuloides/Equisetum arvense-Heracleum lanatum)

n=1 This community type occupies lowland sites adjacent to black spruce and willow lowlands. It is very moist and nutrient rich. Horsetail types in other subregions also tend to be moister and richer than the modal Aw/Rose types. This site is very productive and produces a large amount of forage for domestic livestock. Horsetail is generally unpalatable to livestock and can be poisonous to horses. In contrast cow parsnip is very palatable to livestock. This community type would therefore be rated as primary or secondary range for domestic livestock.

PLANT COMPOSITION CANOPY COVER(%)

	MEAN	RANGE	CONST.
TREES			
TREMBLING ASPEN *(Populus tremuloides)*	12	-	100
SHRUBS			
WILD RED RASPBERRY *(Rubus idaeus)*	3	-	100
FORBS			
COW PARSNIP *(Heracleum lanatum)*	30	-	100
FIREWEED *(Epilobium angustifolium)*	1	-	100
HORSETAIL *(Equisetum arvense)*	25	-	100
TALL LUNGWORT *(Mertensia paniculata)*	18	-	100
TALL LARKSPUR *(Delphinium glaucum)*	13	-	100
GRASSES			
MARSH REED GRASS *(Calamagrostis canadensis)*	47	-	100

ENVIRONMENTAL VARIABLES

MOISTURE REGIME:
SUBHYGRIC TO HYGRIC

NUTRIENT REGIME:
PERMESOTROPHIC

ELEVATION:
758 M

SOIL DRAINAGE:
MODERATELY WELL

FORAGE PRODUCTION(KG/HA)

GRASS	1292
FORBS	1440
TOTAL	2732

SUGGESTED GRAZING CAPACITY
0.7 HA/AUM

CENTRAL MIXEDWOOD SUBREGION

CONIFEROUS AND MIXEDWOOD FOREST COMMUNITIES

Photo 10. The Balsam fir-White spruce/Moss community type is the climatic climax community for the Central Mixedwood subregion.

CM-CONIFEROUS AND MIXEDWOOD FORESTS

The mixedwood and coniferous community types described in this guide represent five ecosites as described by Beckingham and Archibald (1996). On sites with subxeric moisture and poor nutrient regimes, coarse textured, sandy soils open stands of jack pine generally dominate (Pj/Alder, Pj/Bearberry). These community types commonly have a carpet of lichens covering the forest floor and a thin organic layer typically less than 5 cm thick (Beckingham and Archibald 1996).

On slightly moister sites with submesic moisture and medium nutrient regimes aspen grows in conjunction with jack pine to form the Aw-Pj/Bearberry/Lichen community type. The soils of this community type continue to be coarse-textured but the moisture and nutrient conditions are more favourable to the growth of aspen.

The mesic/medium sites are generally dominated by white spruce (Balsam fir-Sw/Moss, Sw/Moss, Sw/Creeping red fescue) and mixedwood communities of aspen and spruce (Aw-Sw/Rose/Low forb). These communities represent the reference ecosite for the Boreal Mixedwood subregion (Beckingham and Archibald 1996). Generally, these sites have moderately fine to fine-textured till or glaciolacustrine parent materials. Pioneer deciduous species (aspen, balsam poplar and birch) are replaced with white spruce and balsam fir as these sites develop successionally. With succession shade tolerant plants take over the herbaceous layer as conifers dominate the canopy. These shade tolerant species are unproductive and often unpalatable for domestic livestock. Forage productivity declines from 2.3 ha/AUM in a deciduous community to 2.3-8.6 ha/AUM in a mixedwood community to less than 10 ha/AUM in a conifer community.

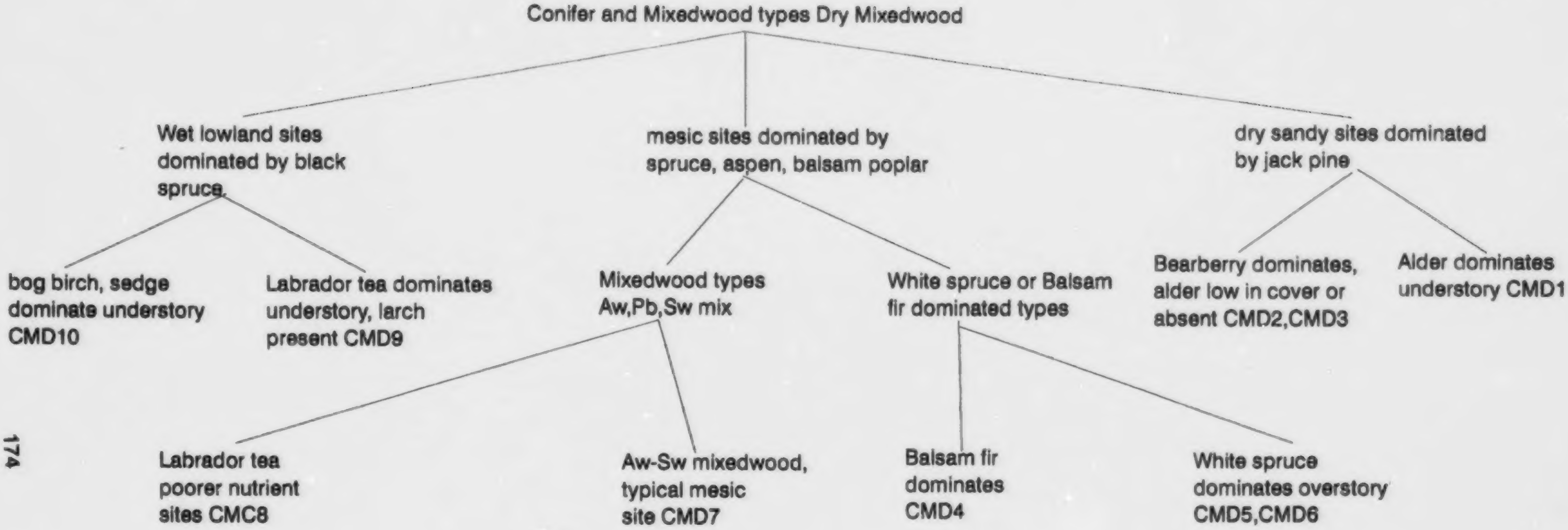
Black spruce and larch communites generally dominate on wetter sites with subhygric to subhydric moisture regimes and poor to medium nutrient regimes to form the Sb/Bog birch and Sb/Labrador tea/Moss community types. Larch is more tolerant of excessive moisture and is indicative of an enriched nutrient status, while black spruce is typical in areas of stagnating ground water with poor nutrient status (Hay et al. 1985). Generally, these community types are considered non-use for domestic livestock.

Beckingham and Archibald (1996), provide a good description on how the conifer and mixedwood communities are arranged in the landscape.

Table 10. Production (kg/ha) and grazing capacity for the ecosite phases, conifer and mixedwood communities of the Central Mixedwood subregion

Community number	Community type	Productivity (kg/ha)				Ecosite	Grazing capacity (ha/AUM)
		Grass	Forb	Shrub	Total		
Ecosite phase	**a1 lichen Pj**	**13**	**44**	**64**	**120**		**Non-use**
CMD1	Pj/Alder	0	40	86	126	subxeric/poor	Non use
CMD2	Pj/Bearberry	25	47	41	113	subxeric/poor	Non use
Ecosite phase	**b1 blueberry**	**28**	**46**	**134**	**208**		**Non-use**
CMD3	Aw-Pj/Bearberry/Lichen	28	46	134	208	submesic/medium	Non use
Ecosite phase	**d2 low-bush cranberry Aw-Sw**	**86**	**194**	**128**	**408**		**4.5**
CMD7	Aw-Sw/Rose/Low forb	86	194	128	408	mesic/medium	4.5
Ecosite phase	**d3 low-bush cranberry Sw**	**5**	**90**	**27**	**123**		**Non-use**
CMD4	Balsam fir-Sw/Moss	0	102	0	102	mesic/medium	Non use
CMD5	Sw/Moss	10	78	54	143	mesic/medium	Non use

Ecosite phase	**d3 grazed spruce**	**525**	**100**	**0**	**625**		**3.0**
CMD6	Sw/Creeping red fescue	525	100	0	625	mesic/medium	3.0
Ecosite phase	**h1 Labrador tea/Horsetail Sw**	**0**	**96**	**96**	**192**		**Non-use**
CMD8	Aw-Sw/Labrador tea/Moss	0	96	96	192	hygric/medium	Non use
Ecosite phase	**i1 treed bog**	**52**	**61**	**91**	**228**		**Non-use**
CMD9	Sb/Labrador tea/Peat moss	52	61	91	228	subhydric/very poor	Non use
Ecosite phase	**j1 treed poor fen**	**104**	**90**	**400**	**594**		**Non-use**
CMD10	Sb/Bog birch	104	90	400	594	subhydric/medium	Non use


Conifer and Mixedwood types Dry Mixedwood
Wet lowland sites dominated by black spruce
mesic sites dominated by spruce, aspen, balsam poplar
dry sandy sites dominated by jack pine
bog birch, sedge dominate understory CMD10
Labrador tea dominates understory, larch present CMD9
Mixedwood types Aw,Pb,Sw mix
White spruce or Balsam fir dominated types
Bearberry dominates, alder low in cover or absent CMD2,CMD3
Alder dominates understory CMD1
Labrador tea poorer nutrient sites CMC8
Aw-Sw mixedwood, typical mesic site CMD7
Balsam fir dominates CMD4
White spruce dominates overstory CMD5,CMD6

Key to conifer and mixedwood communities in the Central Mixedwood subregion

CMD1. Pj/Alder

(Pinus banksiana/ Alnus crispa)

n=1 This community type is found on dry, rapidly drained, sandy soils with a poor nutrient status. Consequently, production is quite low. Cattle will utilize these areas due to the easy access, however overutilization will quickly deplete the area of forage. This community type would be rated as secondary or non-use range.

PLANT COMPOSITION CANOPY COVER(%)

	MEAN	RANGE	CONST.
TREES			
JACK PINE *(Pinus banksiana)*	45	-	100
SHRUBS			
GREEN ALDER *(Alnus crispa)*	41	-	100
PRICKLY ROSE *(Rosa acicularis)*	5	-	100
BLUEBERRY *(Vaccinium myrtilloides)*	13	-	100
FORBS			
TWIN-FLOWER *(Linnaea borealis)*	4	-	100
BEARBERRY *(Arctostaphylos uva-ursi)*	T	-	100
WILD SARSAPARILLA *(Aralia nudicaulis)*	3	-	100
WILD LILY-OF-THE-VALLEY *(Maianthemum canadense)*	4	-	100
GRASSES			
SEDGES *(Carex spp.)*	4	-	100
HAIRY WILD RYE *(Elymus innovatus)*	4	-	100
NORTHERN RICEGRASS *(Oryzopsis pungens)*	5	-	100

ENVIRONMENTAL VARIABLES

MOISTURE REGIME:
SUBXERIC

NUTRIENT REGIME
POOR

ELEVATION:
606 M

SOIL DRAINAGE:
RAPIDLY

PERCENT SLOPE GRADIENT:
2 - 8

FORAGE PRODUCTION (KG/HA)

GRASS	0
FORBS	40
SHRUBS	86
TOTAL	126

SUGGESTED GRAZING CAPACITY
NON-USE

CMD2. Pj/Bearberry

(Pinus banksiana/Arctostaphylos uva-ursi)

n=2 This community represents a jack pine forest which is very similar to the Pj/Alder community type. Like the previous community cattle will utilize these areas due to the easy access, however overutilization will quickly deplete the forage supply. This community type would be rated as secondary range and should be grazed on a single rotation per year.

PLANT COMPOSITION CANOPY COVER(%)

	MEAN	RANGE	CONST.
TREES			
JACK PINE *(Pinus banksiana)*	38	30-45	100
ASPEN (*Populus tremuloides*)	T	0-1	50
SHRUBS			
BOG CRANBERRY *(Vaccinium vitis-idaea)*	6	0-11	50
PRICKLY ROSE *(Rosa acicularis)*	T	0-1	50
BLUEBERRY *(Vaccinium myrtilloides)*	2	0-3	50
FORBS			
BEARBERRY *(Arctostaphylos uva-ursi)*	18	16-19	100
NORTHERN BEDSTRAW *(Galium boreale)*	T	0-1	50
WILD LILY-OF-THE-VALLEY *(Maianthemum canadense)*	1	0-1	100
PHILADEPHLIA FLEABANE *(Erigeron philadelphicus)*	1	0-1	50
GRASSES			
HAIRY WILD RYE *(Elymus innovatus)*	2	0-3	50
SEDGE SPP. *Carex spp.*)	6	0-11	100
NORTHERN RICEGRASS (*Oryzopsis pungens*)	2	1-2	100
MOSSES			
Moss spp.	18	0-35	100

ENVIRONMENTAL VARIABLES

MOISTURE REGIME:
SUBMESIC

NUTRIENT REGIME:
SUBMESOTROPHIC

ELEVATION:
624(576-671) M

SOIL DRAINAGE:
RAPIDLY

PERCENT SLOPE GRADIENT:
10%

FORAGE PRODUCTION (KG/HA)

GRASS	25(0-50)
FORBS	47(40-54)
SHRUBS	41(10-72)
TOTAL	113(100-126)

SUGGESTED GRAZING CAPACITY
NON-USE

CMD3. Aw-Pj/Bearberry/Lichen

(Populus tremuloides-Pinus banksiana/Arctostaphylos uva-ursi/Lichen)

n=2 This community type represents a aspen forest with a secondary canopy of jack pine. It is very similar to the Pj/Bearberry community type, but it is found on slightly moister soils with better nutrients. These conditions favour the growth of aspen. Like the previous community cattle will utilize these areas due to the easy access, however overutilization will quickly deplete the forage supply. This community type would be rated as secondary range and should be grazed on a single rotation per year.

PLANT COMPOSITION

	CANOPY COVER(%)		
	MEAN	RANGE	CONST.
TREES			
JACK PINE			
(Pinus banksiana)	15	10-20	100
ASPEN			
(Populus tremuloides)	20	15-25	100
SHRUBS			
BOG CRANBERRY			
(Vaccinium vitis-idaea)	4	0-8	50
PRICKLY ROSE			
(Rosa acicularis)	1	0-1	50
BLUEBERRY			
(Vaccinium myrtilloides)	8	0-15	50
FORBS			
BEARBERRY			
(Arctostaphylos uva-ursi)	8	2-12	100
TWINFLOWER			
(Linnaea borealis)	T	0-1	50
WILD LILY-OF-THE-VALLEY			
(Maianthemum canadense)	2	0-3	50
TOADFLAX			
(Comandra umbellata)	1	0-1	100
GRASSES			
SLENDER WHEATGRASS			
(Agropyron trachycaulum)	2	0-4	50
NORTHERN RICEGRASS			
(Oryzopsis pungens)	2	0-4	50
SEDGE			
(Carex spp.)	4	0-7	100
LICHENS	49	16-81	100

ENVIRONMENTAL VARIABLES

MOISTURE REGIME:
SUBMESIC

NUTRIENT REGIME:
SUBMESOTROPHIC

ELEVATION:
576 M

SOIL DRAINAGE:
WELL

FORAGE PRODUCTION (KG/HA)

GRASS	28
FORBS	46
SHRUBS	134
TOTAL	208

SUGGESTED GRAZING CAPACITY
NON-USE

CMD4. Balsam fir-Sw/Moss

(Abies balsamea-Picea glauca/ Moss*)*

n=1 This is a mature balsam fir forest which represents the climax vegetation for the area. The northerly aspect of this community type has probably protected the site from past disturbance by fires and allowed the community to undergo succession. The high canopy of balsam fir and spruce limits the light reaching the forest floor, limiting the growth of grasses and forbs. As a result, the forage productivity of this community type is very low. This community would be considered non-use.

PLANT COMPOSITION CANOPY COVER(%)

	MEAN	RANGE	CONST.
TREES			
WHITE SPRUCE *(Picea glauca)*	25	-	100
BALSAM FIR *(Abies balsamea)*	40	-	100
SHRUBS			
PRICKLY ROSE *(Rosa acicularis)*	T	-	100
FORBS			
BUNCHBERRY *(Cornus canadensis)*	10	-	100
TWINFLOWER *(Linnaea borealis)*	4	-	100
WOODLAND HORSETAIL *(Equisetum sylvaticum)*	6	-	100
RUNNING CLUBMOSS (*Lycopodium clavatum*)	3	-	100
MOSSES			
FEATHER MOSS (*Pleurozium schreberi*)	51	-	100
STAIRSTEP MOSS (*Hylocomium splendens*)	37	-	100

ENVIRONMENTAL VARIABLES

MOISTURE REGIME:
MESIC

NUTRIENT REGIME:
MESOTROPHIC

ELEVATION:
333 M

SOIL DRAINAGE:
WELL

PERCENT SLOPE GRADIENT:
5%

ASPECT:
NORTHERLY

FORAGE PRODUCTION (KG/HA)

GRASS	0
FORBS	102
SHRUBS	0
TOTAL	102

SUGGESTED GRAZING CAPACITY
NON-USE

CMD5. Sw/Moss

(Picea glauca/Moss)

n=7 This community is considered successionally mature. A more continuous cover of feather moss and presence of balsam fir would bring this community type closer to the climax community described previously. The limited light penetration in this community discourages understory development, making this a non-use area for domestic livestock.

PLANT COMPOSITION CANOPY COVER(%)

	MEAN	RANGE	CONST.
TREES			
WHITE SPRUCE *(Picea glauca)*	43	20-70	100
ASPEN *(Populus tremuloides)*	4	1-12	50
SHRUBS			
PRICKLY ROSE *(Rosa acicularis)*	4	0-10	83
RED OSIER DOGWOOD *(Cornus stolonifera)*	2	1-9	33
LOW BUSH CRANBERRY (*Viburnum edule*)	2	1-3	67
FORBS			
BUNCHBERRY *(Cornus canadensis)*	8	2-14	83
FIELD HORSETAIL *(Equisetum arvense)*	1	0-3	33
TWINFLOWER *(Linnaea borealis)*	8	3-18	67
PALMATE LEAVED COLTSFOOT *(Petasites palmatus)*	2	1-5	83
DEWBERRY *(Rubus pubescens)*	1	2-3	50
FIREWEED *(Epilobium angustifolium)*	1	2-3	33
GRASSES			
MARSH REEDGRASS *(Calamagrostis canadensis)*	1	0-2	83
MOSS			
STAIR STEP MOSS (*Hylocomium splendens*)	15	40-49	33
FEATHERMOSS (*Pleurozium schreberi*)	1	0-7	17

ENVIRONMENTAL VARIABLES

MOISTURE REGIME:
MESIC

NUTRIENT REGIME:
MESOTROPHIC

ELEVATION:
415(150-606) M

SOIL DRAINAGE:
WELL

PERCENT SLOPE GRADIENT:
1%

FORAGE PRODUCTION(KG/HA)

GRASS	10(0-40)
FORBS	78(0-172)
SHRUBS	54(0-158)
TOTAL	143(36-370)

SUGGESTED GRAZING CAPACITY
NON-USE

CMD6. Sw/Creeping red fescue

(Picea glauca/Festuca rubra)

n=1 This community type represents an old cultivated field which has been planted to white spruce. The canopy of spruce is beginning to shade the understory causing a decline in productivity, however, there is still enough forage for grazing between the spruce trees.

PLANT COMPOSITION CANOPY COVER(%)

	MEAN	RANGE	CONST.
TREES			
ASPEN			
(Populus tremuloides)	1	-	100
WHITE SPRUCE			
(Picea glauca)	35	-	100
BALSAM POPLAR			
(*Populus balsamifera*)	1	-	100
SHRUBS			
SNOWBERRY			
(Symphoricarpos occidentalis)	5	-	100
PRICKLY ROSE			
(Rosa acicularis)	10	-	100
FORBS			
STRAWBERRY			
(Fragaria virginiana)	11	-	100
CLOVER			
(Trifolum hybridum)	5	-	100
DANDELION			
(Taraxacum officinale)	5	-	100
LINDLEY'S ASTER			
(Aster ciliolatus)	3	-	100
GRASSES			
CREEPING RED FESCUE			
(*Festuca rubra*)	29	-	100
HAIRY WILDRYE			
(*Elymus innovatus*)	12	-	100
SLENDER WHEATGRASS			
(*Agropyron trachycaulum*)	11	-	100
SEDGE			
(*Carex spp.*)	3	-	100

ENVIRONMENTAL VARIABLES

MOISTURE REGIME:
MESIC

NUTRIENT REGIME:
MESOTROPHIC

ELEVATION:
606 M

SOIL DRAINAGE:
WELL

FORAGE PRODUCTION (KG/HA)

GRASS	525
FORBS	100
SHRUBS	0
TOTAL	625

SUGGESTED GRAZING CAPACITY
3.0 HA/AUM

CMD7. Aw-Sw/Rose/Low forb

(Populus tremuloides-Picea glauca/ Rosa acicularis/Low forb)

n=5 This community type is dominated by aspen in the primary canopy and by spruce in the secondary canopy. It occupies similar site conditions to the Aw/Rose/Low forb community type. As spruce succeeds into the canopy it reduces the amount of light reaching the forest floor reducing the growth of shrubs, forbs and grass. This community type would be rarely used by livestock and should be rated as secondary range.

PLANT COMPOSITION	CANOPY COVER(%)		
	MEAN	RANGE	CONST.
TREES			
WHITE SPRUCE			
(Picea glauca)	29	9-80	80
TREMBLING ASPEN			
(Populus tremuloides)	33	20-60	100
BALSAM POPLAR			
(Populus balsamifera)	3	6-10	40
SHRUBS			
SNOWBERRY			
(Symphoricarpos occidentalis)	2	3-4	40
PRICKLY ROSE			
(Rosa acicularis)	10	1-19	100
BRACTED HONEYSUCKLE			
(Lonicera involcrata)	4	4-15	40
BUFFALOBERRY			
(Shepherdia canadensis)	2	1-7	60
FORBS			
TWINFLOWER			
(Linnaea borealis)	3	1-5	80
BUNCHBERRY			
(Cornus canadensis)	4	0-6	100
WINTERGREEN			
(Pyrola asarifolia)	1	0-3	60
DEWBERRY			
(Rubus pubscens)	2	1-4	60
BISHOP'S CAP			
(Mitella nuda)	1	0-2	80
GRASSES			
HAIRY WILDRYE			
(*Elymus innovatus*)	5	1-10	80
MARSH REEDGRASS			
(*Calamagrostis canadensis*)	3	1-9	60
MOSSES			
MOSS SPP.	4	4-7	30

ENVIRONMENTAL VARIABLES

MOISTURE REGIME:
MESIC
NUTRIENT REGIME:
MESOTROPHIC
ELEVATION:
573(150-758) M
SOIL DRAINAGE:
WELL

FORAGE PRODUCTION (KG/HAF)

GRASS	86(2-308)
FORBS	194(70-418)
SHRUBS	128(50-308)
TOTAL	408(160-1034)

SUGGESTED GRAZING CAPACITY
4.5 HA/AUM

CMD8. Aw-Sw/Labrador tea/Moss

(Populus tremuloides-Picea glauca/Ledum groenlandicum/Moss)

n=1 This community type has relatively poor nutrient status. Labrador tea and bog cranberry are indicative of acidic soil surface soil conditions. Beckingham and Archibald (1996) described this ecosite with a jack pine and black spruce dominated overstory. The moisture and nutrient conditions of this community type are probably better than their ecosite, which allows aspen and white spruce to dominate the overstory, but the soil conditions are poorer than the Aw-Sw/Rose/Low forb community type. This community type produces little palatable forage and therefore would be classified as non-use.

PLANT COMPOSITION

PLANT COMPOSITION	CANOPY COVER(%)		
	MEAN	RANGE	CONST.
TREES			
ASPEN *(Populus tremuloides)*	55	-	100
WHITE SPRUCE *(Picea glauca)*	40	-	100
SHRUBS			
LABRADOR TEA *(Ledum groenlandicum.)*	11	-	100
BLUEBERRY *(Vaccinium myrtilloides)*	8	-	100
BOG CRANBERRY (*Vaccinium vitis-idaea*)	4	-	100
FORBS			
BUNCHBERRY *(Cornus canadensis)*	5	-	100
TWINFLOWER *(Linnaea borealis)*	5	-	100
BASTARD'S TOADFLAX *(Geocaulon lividum)*	3	-	100
COW-WHEAT (*Melampyrum lineare*)	3	-	100
GRASSES			
HAIRY WILDRYE *(Elymus innovatus)*	1	-	100
MOSSES			
Moss spp.	67	-	100

ENVIRONMENTAL VARIABLES

MOISTURE REGIME:
SUBMESIC- MESIC
NUTRIENT REGIME:
SUBMESOTROPHIC-MESOTROPHIC
ELEVATION:
333 M
SOIL DRAINAGE:
MODERATELY WELL

FORAGE PRODUCTION (KG/HA)

GRASS	0
FORBS	96
SHRUBS	96
TOTAL	192

SUGGESTED GRAZINGCAPACITY
NON-USE

CMD9. Sb/Labrador tea/Moss

(Picea mariana/Ledum groenlandicum/Moss)

n=7 This community type appears to be related to the bog ecosite described by Beckingham and Archibald (1996). The bog ecosite commonly has organic soils consisting of slowly decomposing peat moss. This community type is considered non-use for livestock, due to the lack of forage and poor accessibility.

PLANT COMPOSITION

	CANOPY COVER(%)		
	MEAN	RANGE	CONST.
TREES			
LARCH			
(Larix laricina)	14	10-75	50
BLACK SPRUCE			
(Picea mariana)	31	5-65	88
SHRUBS			
WILLOW SPP.			
(Salix spp.)	5	1-20	38
LABRADOR TEA			
(Ledum groenlandicum)	29	7-61	100
FORBS			
CLOUDBERRY			
(Rubus chamaemorus)	8	13-35	38
HORSETAIL			
(Equisetum arvense)	4	7-23	25
DWARF SCOURING RUSH			
(Equisetum scirpoides)	1	2-3	25
GRASSES			
MARSH REEDGRASS			
(Calamagrostis canadensis)	3	3-10	50
SEDGE			
(Carex aurea)	4	7-14	38
WATER SEDGE			
(*Carex aquatilis*	3	6-14	25
MOSSES			
(Sphagnum spp)	44	75-99	63

ENVIRONMENTAL VARIABLES

MOISTURE REGIME:
SUBHYDRIC
NUTRIENT REGIME:
OLIGOTROPHIC

ELEVATION:
615(579-636) M
SOIL DRAINAGE:
POORLY

FORAGE PRODUCTION (KG/HA)

GRASS	52(0-192)
FORBS	61(0-286)
SHRUBS	91(0-200)
TOTAL	228(30-678)

SUGGESTED GRAZING CAPACITY
NON-USE

CMD10. Sb/Bog birch

(Picea mariana/Betula glandulosa)

n=1 This community type is part ot the poor fen ecosite (Beckingham and Archibald 1996) because it has an intermediate nutrient regime between the bog and rich fen ecosites. Drainage on this community type is poor to very poor, but has some movement of water through the site. This community type has a well developed shrub layer and the grass layer consists mainly of marsh reedgrass and sedge species. The productivity of this type is moderate, but the high water table limits access to domestic livestock. This community would be rated as non-use.

PLANT COMPOSITION CANOPY COVER(%)

	MEAN	RANGE	CONST.
TREES			
LARCH			
(Larix laricina)	10	-	100
BLACK SPRUCE			
(Picea mariana)	5	-	100
SHRUBS			
WILLOW SPP.			
(Salix spp.)	30	-	100
BOG BIRCH			
(Betula glandulosa)	24	-	100
BLUEBERRY			
(*Vaccinium myrtilloides*)	12	-	100
FORBS			
SMALL BOG CRANBERRY			
(Oxycoccus microcarpus)	57	-	100
HORSETAIL			
(Equisetum arvense)	2	-	100
THREE FLW'D SOLOMON'S-SEAL			
(Smilicina trifolia)	5	-	100
GRASSES			
MARSH REEDGRASS			
(Calamagrostis canadensis)	6	-	100
SEDGE			
(Carex aurea)	2	-	100
MOSSES			
(*Sphagnum spp.*)	47	-	100

ENVIRONMENTAL VARIABLES

MOISTURE REGIME:
SUBHYDRIC
NUTRIENT REGIME:
OLIGOTROPHIC

ELEVATION:
576 M
SOIL DRAINAGE:
POORLY

FORAGE PRODUCTION (KG/HA)

GRASS	104
FORBS	90
SHRUBS	400
TOTAL	594

SUGGESTED GRAZING CAPACITY
NON-USE

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APPENDIX 1

VEGETATION REPORTS AND SPECIES LISTS FOR EACH PLANT COMMUNITY TYPE

(See volume 11)

VOLUME

VOLUME

2

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RANGE PLANT COMMUNITY TYPES VEGETATION SPECIES LISTS FOR THE DRY AND CENTRAL MIXEDWOOD SUBREGIONS IN ALBERTA

VOL II

Alberta
ENVIRONMENT
Forest Management Division

Alberta
AGRICULTURE, FOOD AND
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Public Lands Division

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D. Mixedwood and Conifer community types

DMD1. Pj/Alder
DMD2. Pj-Aw/Bearberry
DMB2a. Aw-Sw/Bearberry
DMD3. Sw/Buffaloberry/Bearberry
DMD4. Sw/Hazelnut/Moss
DMD5. Aw-Sw/Rose/Marsh reedgrass
DMD6. Aw-Pb-Sw/Willow/Wild sarsaparilla
DMD7. Sw-Pb-Aw/Rose/Twinflower
DMD8. Sb/Willow/Moss
DMD9. Sb-Lt/Labrador tea/Moss

CM-Central Mixedwood subregion

A. Native grass and Shrublands

Grasslands
CMA1. Sedge meadows
CMA2. Marsh reedgrass meadow
CMA3. Cow parsnip/Kentucky bluegrass-Marsh reedgrass
CMA4. Snowberry/Kentucky bluegrass
CMA5. Plains wormwood/ Sheep fescue
CMA6. Plains wormwood/ Kentucky bluegrass-Sedge

Shrublands

CMA7. Willow/Sedge
CMA8. Willow/Sedge-Kentucky bluegrass
CMA9. Willow/Marsh reedgrass
CMA10. Willow-Alder/Marsh reedgrass
CMA11. Willow/Fireweed
CMA12. Willow-Spruce/Kentucky bluegrass

B. Tame grass community types

CMB1. Kentucky bluegrass/Dandelion
CMB2. Kentucky bluegrass-Timothy/Dandelion
CMB3. Timothy/Dandelion
CMB4. Creeping red fescue-Kentucky bluegrass
CMB5. Creeping red fescue/Hairgrass
CMB6. Creeping red fescue-Timothy/Dandelion
CMB7. Smooth brome

C. Deciduous community types

Balsam poplar dominated

CMC1. Pb/Rose-Alder
CMC2. Pb-Aw/River alder
CMC3. Pb-Aw/Beaked hazelnut-Rose
CMC3a. Aw-Pb/Honeysuckle

Paper birch dominated

CMC4. Bw/Willow

Aspen/Rose dominated

CMC5. Aw/Blueberry
CMC6. Aw/Rose/Twinflower
CMC7. Aw/Rose/Low forb
CMC8. Aw/Rose/Tall forb
CMC8a. Aw/Buffaloberry
CMC9. Aw/Rose-Saskatoon

CMC10. Aw-Pb/Rose/Strawberry
CMC11. Aw/Rose/Clover
CMC12. Aw/Alder-Willow-Rose
CMC13. Aw/Willow
CMC14. Aw-Pb/Red Osier dogwood-Rose
CMC15. Aw/Horsetail-Cow parsnip

D. Mixedwood and Conifer community types

CMD1. Pj/Alder
CMD2. Pj/Bearberry
CMD3. Aw-Pj/Bearberry/Lichen
CMD4. Balsam fir-Sw/Moss
CMD5. Sw/Moss
CMD6. Sw/Creeping red fescue
CMD7. Aw-Sw/Rose/Low forb
CMD8. Aw-Sw/Labrador tea/Moss
CMD9. Sb/Labrador tea/Peat moss
CMD10. Sb/Bog birch

(DMA)

DRY MIXEDWOOD SUBREGION

NATIVE GRASS AND SHRUBLAND

COMMUNITY TYPES

VEGETATION SPECIES LIST

RESOURCE INVENTORY, EDMONTON ALBERTA

Group name: DMA1 Sedge meadows

			Avg	Avg	Plots													
					GPFM19		GPFM24		GPWM05		N00135		N00115		N01569		SMOKY15	
			% P	MC	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg
LAYER	N	SPECIES																
1	1	POPUBAL	14.3	01.4									10					
2	2	BETUPAP	14.3	00.4													02	
	3	POPUBAL	14.3	00.0									00					
4	4	SALISPP	85.7	09.5	03		30		20		02		01		10			
5	5	SALISPP	42.9	00.7							00				00		04	
	6	POTEPAR	14.3	00.1							01							
	7	RUBUARC	14.3	00.1					00									
6	8	MENTARV	57.1	00.9			00		00		00				04			
	9	SCUTGAL	57.1	00.4	01				00		00				00			
	10	POTEPAR	28.6	00.8									00		05			
	11	GEUMMAC	28.6	00.4			00										02	
	12	RUMECRI	28.6	00.3	02				00									
	13	TARAOFF	28.6	00.2									00		01			
	14	STACPAL	28.6	00.2							00		00					
	15	EPILPAL	14.3	00.5	03													
	16	RUMEACE	14.3	00.3			02											
	17	HIPPVUL	14.3	00.1											00			
	18	EQUIARV	14.3	00.1									00					
	19	FRAGVIR	14.3	00.0									00					
	20	PETASAG	14.3	00.0											00			
	21	PLANMAJ	14.3	00.0									00					
	22	SIUMSUA	14.3	00.0											00			
	23	TRIFHYB	14.3	00.0									00					
	24	STELLON	14.3	00.0			00											
7	25	CAREROS	85.7	25.6	85				78		00		01		00		14	
	26	CAREATH	85.7	20.3			72		22		15		01		00		30	
	27	POA PAL	71.4	01.7	04		00				04		00		01			
	28	CAREAQU	42.9	04.7			04								12		16	
	29	CALACAN	42.9	01.9					02						11			
	30	CALAINE	42.9	00.9			01								01		02	
	31	PHRAAUS	28.6	00.6							02				01			
	32	POA PRA	28.6	00.2							01				00			
	33	AGROSCA	14.3	01.3											09			
	34	CAREMIC	14.3	00.8									05					
	35	ELEOPAL	14.3	00.6									04					
	36	CARESPP	14.3	00.3					02									
	37	HORDJUB	14.3	00.3	02													
	38	PHALARU	14.3	00.3			02											
	39	ALOPAEQ	14.3	00.0									00					
	40	SCIRACU	14.3	00.0											00			

Group name: DMA1a Bulrush-Cattail

			Avg	Avg	Plots	
					N00137	
			% P	MC	Cv	Vg
LAYER	N	SPECIES				
4	1	SALISPP	0100	05.0	05	
5	2	POTEPAR	0100	00.3	00	
	3	SALISPP	0100	00.3	00	
6	4	HIPPVUL	0100	00.5	00	
	5	MENTARV	0100	00.3	00	
	6	SCUTGAL	0100	00.3	00	
	7	SIUMSUA	0100	00.3	00	
	8	STACPAL	0100	00.3	00	
7	9	PHRAAUS	0100	13.3	13	
	10	SCIRACU	0100	07.5	07	
	11	CAREATH	0100	05.8	05	
	12	TYPHLAT	0100	05.0	05	
	13	CALACAN	0100	03.8	03	
	14	CAREAQU	0100	01.5	01	
	15	CAREMIC	0100	01.3	01	
	16	CALAINE	0100	00.5	00	
	17	BECKSYZ	0100	00.3	00	

RESOURCE INVENTORY, EDMONTON ALBERTA

Group name: DMA2 Marsh reedgrass meadow

					Plots			
			Avg	Avg	GPWM02		N00113	
			% P	MC	Cv	Vg	Cv	Vg
LAYER	N	SPECIES						
2	1	POPUTRE	50.0	00.9			01	
	2	POPUBAL	50.0	00.1			00	
4	3	SALIBEB	50.0	00.1			00	
5	4	ROSAACI	50.0	01.0	02			
	5	SALISPP	50.0	00.0	00			
	6	SYMPOCC	50.0	00.0	00			
6	7	PETASAG	50.0	02.3			04	
	8	ASTEMOD	50.0	02.0	04			
	9	STACPAL	50.0	01.1			02	
	10	ERIGPHI	50.0	00.6			01	
	11	MENTARV	50.0	00.6			01	
	12	POTEPAR	50.0	00.5			01	
	13	RUMECRI	50.0	00.5	01			
	14	SOLIMIS	50.0	00.3			00	
	15	EQUIARV	50.0	00.1			00	
	16	FRAGVIR	50.0	00.1			00	
	17	SCUTGAL	50.0	00.1			00	
	18	TARAOFF	50.0	00.1			00	
	19	URTIDIO	50.0	00.1			00	
	20	EPILANG	50.0	00.0	00			
7	21	CALACAN	0100	48.5	71		25	
	22	CAREATH	0100	01.3	00		02	
	23	JUNCBAL	50.0	04.6	09			
	24	PHRAAUS	50.0	03.3			06	
	25	POA PRA	50.0	02.8	05			
	26	CAREAQU	50.0	01.6	03			
	27	POA PAL	50.0	00.4			00	
	28	GLYCGRA	50.0	00.1			00	
	29	BROMINE	50.0	00.0	00			

Group name: DMA3 Plains wormwood/Sedge

					Plots			
			Avg	Avg	GPFM37		4wf1013	
			% P	MC	Cv	Vg	Cv	Vg
LAYER	N	SPECIES						
5	1	ARCTUVA	50.0	02.0			04	
	2	POPUTRE	50.0	01.5			03	
	3	HUDSTOM	50.0	00.5			01	
6	4	ARTECAM	0100	11.5	08		15	
	5	EQUIHYE	50.0	08.0	16			
	6	ACHIMIL	50.0	04.9	09			
	7	SOLIMIS	50.0	01.3	02			
	8	VICIAME	50.0	01.3	02			
	9	PENSCON	50.0	00.8	01			
	10	SELARUP	50.0	00.5			01	
	11	EQUISCI	50.0	00.3	00			
	12	HIERUMB	50.0	00.3	00			
	13	COMAUMB	50.0	00.2	00			
	14	GAILARI	50.0	00.1	00			
7	15	FESTSAX	0100	02.3	03		01	
	16	CARESPP	50.0	17.3	34			
	17	POA PRA	50.0	04.5	09			
	18	FESTRUB	50.0	02.3	04			
	19	AGROSCA	50.0	01.1	02			
	20	CARESIC	50.0	00.5			01	
	21	BROMINE	50.0	00.4	00			
8	22	POLYPIL	50.0	35.0			70	
	23	MOSSSPP	50.0	01.6	03			
9	24	CLADMIT	50.0	38.0			76	
	25	CLADAMA	50.0	04.0			08	
	26	CLADGRA	50.0	01.0			02	
	27	CLADUNC	50.0	01.0			02	
	28	CLADCRS	50.0	00.5			01	
	29	CLADPOC	50.0	00.5			01	

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RESOURCE INVENTORY, EDMONTON ALBERTA
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Group name: Purple oatgrass-Sedge-C. oatgra
----------------------------------------------------------------------------
|                        |    |    |                 Plots                 |
|                        |    |    |---------------------------------------|
|                        |Avg |Avg | PRSA05  | PRBI02  | PRBI05  | GPFM01  |
|                        |----+----+---------+---------+---------+---------|
|                        |% P | MC | Cv | Vg | Cv | Vg | Cv | Vg | Cv | Vg |
|------------------------+----+----+----+----+----+----+----+----+----+----|
|LAYER   N       SPECIES |    |    |    |    |    |    |    |    |    |    |
|5       1       SYMPOCC |75.0|12.3| 12 |    | 00 |    |    |    | 36 |    |
|        2       ROSAACI |50.0|02.6| 10 |    |    |    |    |    | 00 |    |
|        3       AMELALN |50.0|00.9| 03 |    | 00 |    |    |    |    |    |
|        4       PRUNVIR |25.0|00.1|    |    |    |    |    |    | 00 |    |
|6       5       FRAGVIR |0100|13.9| 15 |    | 29 |    | 09 |    | 01 |    |
|        6       THALVEN |0100|04.3| 00 |    | 08 |    | 03 |    | 04 |    |
|        7       TARAOFF |75.0|07.8| 10 |    |    |    | 00 |    | 20 |    |
|        8       ACHIMIL |75.0|06.4| 08 |    | 12 |    | 04 |    |    |    |
|        9       VICIAME |75.0|05.1| 07 |    |    |    | 03 |    | 09 |    |
|        10      GALIBOR |75.0|01.8|    |    | 05 |    | 02 |    | 00 |    |
|        11      ASTELAE |75.0|01.6| 04 |    | 01 |    | 00 |    |    |    |
|        12      SOLICAN |50.0|03.3| 00 |    |    |    |    |    | 12 |    |
|        13      LATHOCH |50.0|02.7|    |    | 03 |    |    |    | 07 |    |
|        14      ZIZIAPT |50.0|01.8| 03 |    |    |    | 03 |    |    |    |
|        15      GEUMTRI |50.0|01.5|    |    | 01 |    | 04 |    |    |    |
|        16      GEUMMAC |50.0|00.6| 00 |    |    |    |    |    | 01 |    |
|        17      POTEARG |50.0|00.5|    |    | 01 |    | 00 |    |    |    |
|        18      CAMPROT |50.0|00.3|    |    | 01 |    | 00 |    |    |    |
|        19      VIOLCAN |25.0|02.4|    |    |    |    |    |    | 09 |    |
|        20      SONCARV |25.0|01.9| 07 |    |    |    |    |    |    |    |
|        21      HERALAN |25.0|01.0|    |    |    |    |    |    | 04 |    |
|        22      CERAARV |25.0|00.7|    |    | 02 |    |    |    |    |    |
|        23      ANEMCAN |25.0|00.6|    |    |    |    |    |    | 02 |    |
|        24      HEUCRIC |25.0|00.5| 02 |    |    |    |    |    |    |    |
|        25      BOTRSIM |25.0|00.4| 01 |    |    |    |    |    |    |    |
|        26      PENSPRO |25.0|00.3|    |    | 01 |    |    |    |    |    |
|        27      SMILSTE |25.0|00.3|    |    |    |    |    |    | 01 |    |
|        28      EPILANG |25.0|00.2|    |    |    |    | 00 |    |    |    |
|        29      SCUTGAL |25.0|00.2|    |    |    |    |    |    | 00 |    |
|        30      GEUMALE |25.0|00.1|    |    |    |    | 00 |    |    |    |
|        31      STELLON |25.0|00.1|    |    |    |    |    |    | 00 |    |
|        32      CASTMIN |25.0|00.1|    |    |    |    | 00 |    |    |    |
|        33      SOLIMUL |25.0|00.1|    |    | 00 |    |    |    |    |    |
|        34      VIOLADU |25.0|00.1| 00 |    |    |    |    |    |    |    |
|        35      GENTAMA |25.0|00.0|    |    |    |    | 00 |    |    |    |
|        36      PLANMAJ |25.0|00.0| 00 |    |    |    |    |    |    |    |
|7       37      SCHIPUR |0100|25.1| 21 |    | 32 |    | 12 |    | 34 |    |
|        38      POA PRA |0100|12.3| 40 |    | 00 |    | 00 |    | 07 |    |
|        39      AGROTRA |0100|11.5| 18 |    | 06 |    | 16 |    | 05 |    |
|        40      CAREPRA |75.0|09.1|    |    | 10 |    | 10 |    | 15 |    |
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VEGETATION  REPORT
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RESOURCE INVENTORY, EDMONTON ALBERTA
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Group name: Purple oatgrass-Sedge-C. oatgra
-----------------------------------------------------------------------
|                       |    |    |                 Plots              |
|                       |    |    |------------------------------------|
|                       |Avg |Avg | PRSA05   | PRBI02   | PRBI05   | GPFM01  |
|                       |----+----+----------+----------+----------+---------|
|                       |% P | MC | Cv | Vg | Cv | Vg | Cv | Vg | Cv | Vg |
|-----------------------+----+----+----+----+----+----+----+----+----+----|
|LAYER  N      SPECIES  |    |    |    |    |    |    |    |    |    |    |
|7      41     AGROSCA  |75.0|05.1| 06 |    | 03 |    | 09 |    |    |    |
|       42     KOELMAC  |75.0|04.2| 06 |    | 06 |    | 03 |    |    |    |
|       43     DANTCAL  |50.0|09.3|    |    | 28 |    | 09 |    |    |    |
|       44     BROMCIL  |50.0|04.3|    |    |    |    | 04 |    | 12 |    |
|       45     ELYMINN  |50.0|03.2|    |    | 07 |    | 05 |    |    |    |
|       46     FESTSAX  |25.0|00.3|    |    | 01 |    |    |    |    |    |
|       47     JUNCBAL  |25.0|00.0|    |    | 00 |    |    |    |    |    |
|8      48     MOSSSPP  |25.0|00.5|    |    |    |    |    |    | 02 |    |
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Group name: DMA4a V.meadow rue/S.wheatgrass

			Avg	Avg	Plots			
					7ep1009		7ep1038	
			% P	MC	Cv	Vg	Cv	Vg
LAYER	N	SPECIES						
5	1	PICEGLA	50.0	00.5	01			
6	2	THALVEN	0100	22.5	30		15	
	3	MERTPAN	0100	08.5	15		02	
	4	EPILANG	0100	01.5	01		02	
	5	GEUMALE	0100	01.5	02		01	
	6	SOLICAN	50.0	15.0	30			
	7	GALIBOR	50.0	01.5	03			
	8	ACHIMIL	50.0	01.0	02			
	9	DELPGLA	50.0	00.5	01			
	10	FRAGVIR	50.0	00.5	01			
	11	GALETET	50.0	00.5	01			
	12	URTIDIO	50.0	00.5			01	
	13	VICIAME	50.0	00.5	01			
7	14	AGROTRA	0100	17.5	20		15	
	15	BROMINE	0100	15.0	20		10	
	16	CAREXER	0100	10.0	10		10	
	17	CALACAN	50.0	01.0			02	

Group name: DMA5 W.porcupine grass-Sedge/Sa

			Avg	Avg	Plots													
					GPEP05		GPFM03		JAIL14		MISRY13		7sp1040		7kr1075		7ep1065	
			% P	MC	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg
LAYER	N	SPECIES																
1	1	PINUBAN	14.3	00.6			04											
	2	POPUTRE	14.3	00.4			03											
4	3	SALISPP	14.3	02.9	20													
5	4	AMELALN	71.4	00.9	00		01						02	1	01		02	
	5	SYMPOCC	57.1	02.4	04		08								03		02	
	6	ROSAARK	42.9	01.0	00		01						05	1				
	7	ROSAWOO	14.3	00.7											05			
	8	PRUNVIR	14.3	00.3													02	
	9	ARTEFRI	14.3	00.1	00													
6	10	ARTEFRI	71.4	07.7			05		03		05				10		30	
	11	COMAUMB	71.4	00.6	00				00		00		02	2	01			
	12	ANEMPAT	42.9	01.8					12		00							
	13	ANTEPAR	42.9	00.6			03		01		00							
	14	ANDRSEP	42.9	00.3	00				00						01			
	15	SOLIMIS	28.6	01.0					04						03			
	16	VICIAME	28.6	00.5					02						01			
	17	ASTRSPP	28.6	00.5					02		01							
	18	LINULEW	28.6	00.4							00						02	
	19	OPUNFRA	28.6	00.3					00		02							
	20	ALLICER	28.6	00.3					00		01							
	21	GALIBOR	28.6	00.2							00						01	
	22	TRAGDUB	28.6	00.2							00				01			
	23	OXYTSPL	28.6	00.2	00										01			
	24	ACHIMIL	28.6	00.1	00				00									
	25	ANTEROS	14.3	00.9							06							
	26	ERIGCES	14.3	00.4					02									
	27	ZIGAELE	14.3	00.3			02											
	28	APOCAND	14.3	00.1									01	2				
	29	ASTELAE	14.3	00.1											01			
	30	ASTRDAS	14.3	00.1											01			
	31	GEUMTRI	14.3	00.1											01			
	32	MELIALB	14.3	00.1											01			
	33	POTEPEN	14.3	00.1											01			
	34	STACPAL	14.3	00.1											01			
	35	TARAOFF	14.3	00.1											01			
	36	SPHACOC	14.3	00.1							00							
	37	ARABHIR	14.3	00.1	00													
	38	CAMPROT	14.3	00.0					00									
	39	LINAVUL	14.3	00.0					00									
	40	POTEHIP	14.3	00.0	00													

(CONTINUED)

Group name: DMA5 W.porcupine grass-Sedge/Sa

			Avg	Avg	Plots													
					GPEP05		GPFM03		JAIL14		MISRY13		7sp1040		7kr1075		7ep1085	
			% P	MC	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg
LAYER	N	SPECIES																
6	41	VICISPA	14.3	00.0							00							
	42	ARTEBIE	14.3	00.0							00							
	43	TOWNEXS	14.3	00.0							00							
7	44	STIPCUR	0100	14.5	46		07		06		05		17	2	05		15	
	45	KOELMAC	85.7	06.2	12		07		09		07		04	2	03			
	46	CAREPEN	42.9	07.1									10	2	30		10	
	47	STIPVIR	42.9	05.4			05				17				15			
	48	AGROTRA	42.9	03.5					02						20		02	
	49	AGROSMI	42.9	01.1			05		01		01							
	50	CAREOBT	28.6	06.6	12		33											
	51	AGRODAS	28.6	02.0					06		06							
	52	CALAMON	28.6	00.4					00		02							
	53	STIPRIC	28.6	00.3					00		01							
	54	CARESIC	14.3	01.2							08							
	55	POA PRA	14.3	01.1	08													
	56	CAREFIL	14.3	01.0					06									
	57	STIPCOM	14.3	00.3							02							
	58	STIPCOL	14.3	00.0	00													
	59	STIPSPA	14.3	00.0	00													
9	60	CLADPYX	14.3	00.3											02			

Group name: DMA6 N.wheatgrass-Junegrass/Sag

					Plots																									
			Avg	Avg	GPKS02		N00124		N00126		N03328		N00123		N00121		N00122		N00131		7sp1001		7sp1004		7sp1012		7sp1013		7sp1028	
			% P	MC	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg
LAYER	N	SPECIES																												
2	1	POPUTRE	15.4	00.1			00												01											
4	2	AMELALN	46.2	04.8			02				15		10		10		10		15											
	3	ELAECOM	07.7	01.2					15																					
5	4	AMELALN	69.2	01.3	08				02		00		00		00		00		02				01						01	1
	5	ROSAACI	61.5	02.9	08		01		02		02						07		14				01						01	1
	6	SYMPALB	46.2	01.4	10				00				00				00		04		02									
	7	ARTEFRI	38.5	01.4					08		02		02		04		00													
	8	SYMPOCC	23.1	01.3			01								00								15							
	9	SHEPCAN	15.4	00.2			00												01											
	10	RIBEOXY	07.7	00.8															09											
	11	ROSAWOO	07.7	00.2																	02									
	12	SPHACOC	07.7	00.2																							02			
	13	ARCTUVA	07.7	00.1			01																							
	14	PRUNPEN	07.7	00.1					01																					
	15	PRUNVIR	07.7	00.1																			01							
	16	ARTELUD	07.7	00.1							00																			
	17	ELAECOM	07.7	00.1					00																					
	18	JUNICOM	07.7	00.0													00													
	19	POTEPEN	07.7	00.0											00															
	20	SMILSTE	07.7	00.0							00																			
6	21	GALIBOR	69.2	01.1	00		03		01				01		01		00		01		05		01							
	22	TARAOFF	61.5	00.9	02		00		00		01		01		02		01		01											
	23	COMAUMB	53.8	00.8			01						00		01		00				05		01				01			
	24	ASTECIL	46.2	00.7	02		03		00						00		00		02											
	25	ARTEFRI	38.5	04.4	04																		20		15		03		15	2
	26	ACHIMIL	38.5	00.9	01		05				03								01				01							
	27	OXYTSPL	38.5	00.6	00								02		02		02						01							
	28	CREPTEC	38.5	00.6			00		01				03		02		00													
	29	ANEMMUL	38.5	00.4			01				01		00								01		01							
	30	ALLICER	30.8	00.5							02		01		01		01													
	31	SAXIBRO	30.8	00.4			01				03		00		00															
	32	POTEPEN	30.8	00.3					00				01										01				01			
	33	VICIAME	30.8	00.2	00		00				01				00															
	34	SOLIMIS	23.1	00.9					01		10								00											
	35	FRAGVIR	23.1	00.5			02				02								01											
	36	LINULEW	23.1	00.5	04										00		01													
	37	ERIGPHI	23.1	00.2			00		01										00											
	38	APOCAND	23.1	00.1					00				00				00													
	39	ANTEPAR	15.4	00.5							06				00															
	40	THALOCC	15.4	00.2			00												02											

(CONTINUED)

RESOURCE INVENTORY, EDMONTON ALBERTA

Group name: DMA6 N.wheatgrass-Junegrass/Sag

					Plots																									
			Avg	Avg	GPKS02		N00124		N00126		N03328		N00123		N00121		N00122		N00131		7sp1001		7sp1004		7sp1012		7sp1013		7sp1028	
			% P	MC	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg
LAYER	N	SPECIES																												
6	41	OPUNFRA	15.4	00.2																					01		02			
	42	CAMPROT	15.4	00.2			01						00																	
	43	ASTRDAS	15.4	00.1											00		01													
	44	ARABGLA	15.4	00.1					00				00																	
	45	MAIACAN	15.4	00.1			00												00											
	46	CERAARV	07.7	00.6							08																			
	47	ERIGELA	07.7	00.2																			02							
	48	ASTRTEN	07.7	00.1	01																									
	49	LATHOCH	07.7	00.1			01																							
	50	ASTELAE	07.7	00.1																	01									
	51	ORTHLUT	07.7	00.1																	01									
	52	RANUACR	07.7	00.1							01																			
	53	VIOLADU	07.7	00.1			00																							
	54	PETAVIT	07.7	00.0							00																			
	55	AGASFOE	07.7	00.0															00											
	56	ASTECON	07.7	00.0															00											
	57	CHENALB	07.7	00.0									00																	
	58	EPILANG	07.7	00.0			00																							
	59	SENESTR	07.7	00.0							00																			
	60	SOLISPA	07.7	00.0	00																									
7	61	AGRODAS	76.9	10.3	17				01		01		02		04		02				70				15		10		09	2
	62	KOELMAC	76.9	04.7	05		00				08		02		05		01						20		05		01		10	2
	63	AGROTRA	46.2	02.8			02		01								00		02				30							
	64	STIPVIR	30.8	02.2									00		02		05												20	2
	65	CARESPP	30.8	01.1			03		07		02		00																	
	66	STIPCOM	30.8	00.8							03				00										05		01			
	67	STIPRIC	15.4	00.6	03		04																							
	68	CAREOBT	15.4	00.4	00																								05	2
	69	SCHIPUR	15.4	00.4			04												01											
	70	POA PRA	15.4	00.3			01												02											
	71	CAREPEN	15.4	00.2																					02		01			
	72	BROMCIL	15.4	00.1					00										01											
	73	STIPSPA	15.4	00.1									00				00													
	74	CAREPRT	07.7	00.5																			06							
	75	ELYMINN	07.7	00.4															05											
	76	SPORCRY	07.7	00.4									05																	
	77	FESTOVI	07.7	00.4			04																							
	78	POA SAN	07.7	00.2							02																			
	79	AGROSMI	07.7	00.1	01																									
	80	ORYZASP	07.7	00.1			01																							

(CONTINUED)

Group name: DMA6 N.wheatgrass-Junegrass/Sag

			Avg	Avg	Plots																									
					GPKS02		N00124		N00126		N03328		N00123		N00121		N00122		N00131		7sp1001		7sp1004		7sp1012		7sp1013		7sp1028	
			% P	MC	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg
LAYER	N	SPECIES																												
7	81	DANTCAL	07.7	00.1			00																							
	82	CALACAN	07.7	00.0															00											
	83	AGROSCA	07.7	00.0															00											
	84	HELIHOO	07.7	00.0							00																			
	85	PHLEPRA	07.7	00.0			00																							
	86	STIPCOL	07.7	00.0					00																					
	87	STIPCUR	07.7	00.0											00															
8	88	ALOIBRE	15.4	00.2																					01		01			
	89	EURHPUL	07.7	00.4																	05									
	90	BRYUCAE	07.7	00.2																			03							
9	91	PELTCAN	23.1	00.3																	01		02		01					
	92	CLADPYX	15.4	00.2																			01		02					
	93	CLADSQU	07.7	05.4																	70									
	94	CLADCHL	07.7	00.2																	02									

Group name: DM7A Saskatoon-Snowberry/H.wild

					Plots																	
			Avg	Avg	GPFM06		GPKS03		GPKI11		7sp1037		7sp1014		7sp1038		7ep1142		7sp1030		7sp1008	
			% P	MC	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg
LAYER	N	SPECIES																				
1	1	BETUPAP	11.1	00.1																	01	
	2	POPUBAL	11.1	00.1																	01	
2	3	POPUTRE	22.2	01.6			04		10													
	4	POPUBAL	11.1	00.1																	01	
4	5	PRUNPEN	11.1	02.2																	20	
	6	PRUNVIR	11.1	00.1									01									
5	7	AMELALN	0100	28.3	23		06		15		15		50		20		65		50		10	
	8	ROSAACI	0100	10.3	05		06		27		05		15		05		05		10		15	
	9	PRUNVIR	77.8	12.3			00		00		15		25		15		10		45			
	10	SYMPOCC	77.8	09.2	01		10		07		25		05		30		03					
	11	SHEPCAN	33.3	01.2	00						10						01					
	12	SYMPALB	33.3	01.2									03						05		03	
	13	LONIDIO	33.3	00.4			00				01		02									
	14	CORYCOR	22.2	03.1			02														25	
	15	CORNSTO	22.2	01.3					06												05	
	16	VACCMYR	22.2	00.7	05		01															
	17	POPUTRE	11.1	01.1													10					
	18	ARCTUVA	11.1	01.1	09																	
	19	ELAECOM	11.1	00.6					05													
	20	PRUNPEN	11.1	00.6																	05	
	21	ROSAWOO	11.1	00.6																	05	
	22	LINNBOR	11.1	00.1																	01	
	23	VIBUEDU	11.1	00.1																	01	
	24	SALIBEB	11.1	00.1			00															
6	25	GALIBOR	0100	01.3	01		03		00		01		01		01		01		01		01	
	26	LATHOCH	77.8	01.1	01		02		01		01		01		01				01			
	27	ASTECIL	66.7	02.4	01		02		00								01		15		01	
	28	FRAGVIR	66.7	01.4	01		07		00		01				01		01					
	29	ACHIMIL	66.7	00.9	00		04				01				01		01		01			
	30	VICIAME	66.7	00.8	00		00		01				01				02		01			
	31	MAIACAN	55.6	02.9	13		00				01						10				01	
	32	APOCAND	44.4	00.8			00				01		02						03			
	33	ARALNUD	33.3	02.3					02				03								15	
	34	ASTECON	33.3	00.6					00								02				03	
	35	DISPTRA	33.3	00.4							01		02								01	
	36	TARAOFF	33.3	00.3					01						01						01	
	37	ASTELAE	22.2	00.6							02				03							
	38	VIOLADU	22.2	00.1	00		00															
	39	ANEMMUL	22.2	00.1	00		00															
	40	LILIPHI	22.2	00.1	00		00															

(CONTINUED)

VEGETATION REPORT

RESOURCE INVENTORY, EDMONTON ALBERTA

Group name: DM7A Saskatoon-Snowberry/H.wild

					Plots																	
			Avg	Avg	GPFM06		GPKS03		GPKI11		7sp1037		7sp1014		7sp1036		7ep1142		7sp1030		7sp1008	
			% P	MC	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg
LAYER	N	SPECIES																				
6	41	ARCTUVA	11.1	04.0			36															
	42	COMAUMB	11.1	00.3	03																	
	43	RUBUPUB	11.1	00.3																	03	
	44	SOLISPA	11.1	00.3			02															
	45	ASTEERI	11.1	00.2											02							
	46	ERIGPHI	11.1	00.2			01															
	47	TRIFHYB	11.1	00.2					01													
	48	ANEMCAN	11.1	00.1											01							
	49	CORNCAN	11.1	00.1																	01	
	50	ERIGGLA	11.1	00.1											01							
	51	MOEHLAT	11.1	00.1															01			
	52	SMILSTE	11.1	00.1									01									
	53	VIOLCAN	11.1	00.1							01											
	54	VIOLREN	11.1	00.1													01					
	55	SMILRAC	11.1	00.1					00													
	56	EQUILAE	11.1	00.1	00																	
	57	SOLICAN	11.1	00.1					00													
	58	LEPIDEN	11.1	00.0			00															
	59	HALEDEF	11.1	00.0			00															
	60	SISYMON	11.1	00.0			00															
7	61	ELYMINN	77.8	02.3			00		00		03		03		10		02				02	
	62	AGROTRA	55.6	02.7	02				00		15				05				01			
	63	CARESIC	33.3	01.1							05		02		03							
	64	ORYZPUN	22.2	01.6	12		01															
	65	CAREOBT	22.2	01.2	09		01															
	66	POA PRA	11.1	00.8			07															
	67	BROMCIL	11.1	00.7			06															
	68	CAREPRA	11.1	00.6			05															
	69	AGROSCA	11.1	00.2			01															
	70	ORYZASP	11.1	00.2			01															
	71	BROMINE	11.1	00.1					01													
	72	CAREPEC	11.1	00.1															01			
	73	POA NER	11.1	00.1			01															
	74	SCHIPUR	11.1	00.1	00																	
	75	CAREROI	11.1	00.1					00													
	76	FESTSAX	11.1	00.1			00															
8	77	BRACSAL	11.1	00.3											03							
	78	THUIREC	11.1	00.1							01											
9	79	PELTCAN	22.2	00.2							01				01							

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VEGETATION  REPORT                                                                          11:02 Tuesday, September 10, 1996   3
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RESOURCE INVENTORY, EDMONTON ALBERTA
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Group name: Saskatoon/S. clover/S. brome
-----------------------------------------------------
|                      |    |    |      Plots        |
|                      |    |    |-------------------|
|                      |Avg |Avg | GPKI08  | GPKI02  |
|                      |----+----+---------+---------|
|                      |% P | MC | Cv | Vg | Cv | Vg |
|----------------------+----+----+----+----+----+----|
|LAYER  N      SPECIES |    |    |    |    |    |    |
|2      1      POPUTRE |0100|04.8| 05 |    | 04 |    |
|5      2      SYMPALB |0150|19.9| 25 |    | 14 |    |
|       3      ROSAACI |0100|37.2| 62 |    | 11 |    |
|       4      AMELALN |0100|07.1| 00 |    | 13 |    |
|       5      RUBUIDA |50.0|04.3| 08 |    |    |    |
|6      6      GALIBOR |0100|05.4| 01 |    | 08 |    |
|       7      ASTECON |0100|02.9| 04 |    | 01 |    |
|       8      ACHIMIL |0100|02.6| 02 |    | 02 |    |
|       9      VICIAME |0100|02.5| 02 |    | 03 |    |
|       10     ASTECIL |0100|02.0| 01 |    | 02 |    |
|       11     TARAOFF |0100|01.7| 02 |    | 00 |    |
|       12     LATHOCH |0100|01.6| 00 |    | 03 |    |
|       13     APOCAND |0100|01.2| 01 |    | 00 |    |
|       14     FRAGVIR |0100|01.1| 01 |    | 01 |    |
|       15     MELIOFF |50.0|08.3| 16 |    |    |    |
|       16     SMILRAC |50.0|00.9| 01 |    |    |    |
|       17     MAIACAN |50.0|00.6|    |    | 01 |    |
|       18     SMILSTE |50.0|00.4|    |    | 00 |    |
|       19     CERAARV |50.0|00.3|    |    | 00 |    |
|       20     PLANMAJ |50.0|00.3|    |    | 00 |    |
|7      21     CAREROI |0100|05.5| 07 |    | 04 |    |
|       22     BROMINE |50.0|06.7|    |    | 13 |    |
|       23     PHLEPRA |50.0|03.0| 06 |    |    |    |
|       24     POA PRA |50.0|00.5|    |    | 01 |    |
|       25     CAREOBT |50.0|00.2| 00 |    |    |    |
|       26     ELYMINN |50.0|00.2|    |    | 00 |    |
|       27     AGROTRA |50.0|00.1|    |    | 00 |    |
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RESOURCE INVENTORY, EDMONTON ALBERTA
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Group name: Kentucky bluegrass-Hairgrass
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|                      |    |    |  Plots   |
|                      |    |    |----------|
|                      |Avg |Avg |  PRAD01  |
|                      |----+----+----------|
|                      |% P | MC | Cv  | Vg |
|----------------------+----+----+-----+----|
|LAYER   N      SPECIES |    |    |     |    |
|6       1      TARAOFF |0100|60.0| 60  |    |
|        2      FRAGVIR |0100|14.3| 14  |    |
|        3      LATHOCH |0100|12.2| 12  |    |
|        4      ACHIMIL |0100|11.0| 11  |    |
|        5      EQUIARV |0100|06.8| 06  |    |
|        6      ASTELAE |0100|03.4| 03  |    |
|        7      VICIAME |0100|03.3| 03  |    |
|        8      THALVEN |0100|03.0| 03  |    |
|        9      CERAARV |0100|02.7| 02  |    |
|        10     GEUMALE |0100|02.1| 02  |    |
|        11     ARNICHA |0100|01.0| 01  |    |
|        12     GENTAMA |0100|00.7| 00  |    |
|        13     GALIBOR |0100|00.5| 00  |    |
|        14     CAMPROT |0100|00.4| 00  |    |
|        15     TRIFHYB |0100|00.2| 00  |    |
|        16     CREPTEC |0100|00.1| 00  |    |
|7       17     POA PRA |0100|18.0| 18  |    |
|        18     AGROSCA |0100|15.8| 15  |    |
|        19     AGROTRA |0100|05.3| 05  |    |
|        20     BROMCIL |0100|04.0| 04  |    |
|        21     CAREPRA |0100|02.1| 02  |    |
|        22     FESTSAX |0100|00.5| 00  |    |
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Group name: DMA10 Willow/Sedge

			Avg	Avg	Plots																					
					GPFM29		PRPA04		S1742		N00106		N01771		S01843		N00102		N01670		N00133		S03262		N0078	
			% P	MC	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg
LAYER	N	SPECIES																								
2	1	POPUBAL	09.1	00.1													01									
4	2	SALISPP	81.8	09.5					10		15		10		10		30		05		10		05		10	
	3	SALIBEB	18.2	11.8	65		65																			
	4	CORYCOR	09.1	00.9	10																					
5	5	SALISPP	72.7	00.3					00		00		00		00				00		00		00		01	
	6	SALIBEB	09.1	00.9													09									
	7	PICEMAR	09.1	00.3	03																					
	8	LEDUGRO	09.1	00.2	02																					
	9	RUBUARC	09.1	00.2			02																			
	10	POTEPAR	09.1	00.1																	01					
	11	ACHIMIL	09.1	00.0																	00					
	12	ROSAACI	09.1	00.0	00																					
	13	SALIPIT	09.1	00.0													00									
	14	VIBUEDU	09.1	00.0	00																					
6	15	MENTARV	72.7	01.2							05		00		01		01		01		01		01		00	
	16	SCUTGAL	54.5	01.0	00						00		02						05		01				01	
	17	TARAOFF	36.4	02.6			22				00						01								04	
	18	FRAGVIR	36.4	01.8	00		18										01								00	
	19	EQUIARV	36.4	01.6	03		11										00						02			
	20	POTEPAR	36.4	00.8							02		01				03		01							
	21	PETASAG	36.4	00.4	01		01				00												01			
	22	RUMEACE	27.3	00.1					00		00				00											
	23	POTEPAL	27.3	00.1	00										00								00			
	24	LATHOCH	18.2	00.1	00												00									
	25	STACPAL	18.2	00.1													00				00					
	26	URTIDIO	18.2	00.1											00						00					
	27	CORNCAN	09.1	00.3	03																					
	28	RANUACR	09.1	00.2																					02	
	29	GEUMALE	09.1	00.2			02																			
	30	VICIAME	09.1	00.2			02																			
	31	LINNBOR	09.1	00.1	01																					
	32	ASTECIL	09.1	00.1			01																			
	33	PARNPAL	09.1	00.1			01																			
	34	ACHIMIL	09.1	00.1			00																			
	35	LEMNMIN	09.1	00.1					00																	
	36	POTEGRA	09.1	00.1													00									
	37	RUBUARC	09.1	00.1	00																					
	38	HABEVIR	09.1	00.1	00																					
	39	RUBUPUB	09.1	00.1	00																					
	40	EQUISCI	09.1	00.0	00																					

(CONTINUED)

RESOURCE INVENTORY, EDMONTON ALBERTA

Group name: DMA10 Willow/Sedge

			Avg	Avg	Plots																					
					GPFM29		PRPA04		S1742		N00106		N01771		S01843		N00102		N01670		N00133		S03262		N0078	
			% P	MC	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg
LAYER	N	SPECIES																								
6	41	HIPPVUL	09.1	00.0																					00	
	42	MITENUD	09.1	00.0	00																					
	43	RUMETRI	09.1	00.0																			00			
	44	EPILANG	09.1	00.0											00											
	45	PEDILAB	09.1	00.0									00													
	46	MAIACAN	09.1	00.0	00																					
	47	STELLON	09.1	00.0			CO																			
7	48	CAREROS	0100	19.8	03		01		42		36		36		39		12		11		07		11		13	
	49	CAREATH	81.8	07.2					30		01		10		01		02		05		18		07		02	
	50	CALACAN	81.8	03.5	06		11				03		01				04		01		00		04		02	
	51	CAREAQU	45.5	03.5	07		25								02								00		03	
	52	PHRAAUS	45.5	00.3							00						01		00		00				01	
	53	POA PAL	36.4	01.1									00				03		08						00	
	54	ALOPAEQ	36.4	00.3							00						02		00						00	
	55	POA PRA	27.3	01.8			10										05				04					
	56	GLYCGRA	27.3	00.1							00										00				00	
	57	CAREMIC	18.2	01.7							11												06			
	58	CALAINE	18.2	00.5	00																				05	
	59	CARECAP	18.2	00.3	02		00																			
	60	BECKSYZ	18.2	00.2													01								00	
	61	HORDJUB	18.2	00.1													00				00					
	62	CAREAUR	09.1	00.3	03																					
	63	AGROSCA	09.1	00.0			00																			
	64	ELEOPAL	09.1	00.0																					00	
	65	EQUIARV	09.1	00.0					00																	
	66	SCIRACU	09.1	00.0																					00	

Group name: DMA10a Willow/Marsh reedgrass

			Avg	Avg	Plots					
					N00111		N02372		S02944	
			% P	MC	Cv	Vg	Cv	Vg	Cv	Vg
LAYER	N	SPECIES								
1	1	PICEMAR	33.3	01.7					05	
2	2	PICEMAR	33.3	00.3					01	
4	3	SALISPP	0100	36.7	40		10		60	
5	4	SALISPP	66.7	00.2	00		00			
	5	SALIBEB	33.3	02.9					08	
	6	SALIMAC	33.3	01.3					03	
	7	RUBUARC	33.3	00.9					02	
	8	SALIPET	33.3	00.9					02	
	9	BETUGLA	33.3	00.8					02	
	10	RIBELAC	33.3	00.3					01	
	11	CORNSTO	33.3	00.1					00	
6	12	SCUTGAL	66.7	04.6	03		10			
	13	MENTARV	66.7	01.9	04		00			
	14	TARAOFF	66.7	01.5	01		03			
	15	POTEPAR	66.7	01.0	01		02			
	16	POTEPAL	66.7	00.9			01		01	
	17	SIUMSUA	66.7	00.5			01			
	18	URTIDIO	33.3	01.7	05					
	19	EQUIARV	33.3	00.7	02					
	20	PETASAG	33.3	00.7					02	
	21	STACPAL	33.3	00.5	01					
	22	PETAPAL	33.3	00.3	01					
	23	VEROAME	33.3	00.3	01					
	24	CORNCAN	33.3	00.3					00	
	25	FRAGVIR	33.3	00.3					00	
	26	MAIACAN	33.3	00.2					00	
	27	ERIGPHI	33.3	00.1					00	
	28	MITENUD	33.3	00.1					00	
	29	POTEGRA	33.3	00.1	00					
	30	VICIAME	33.3	00.1					00	
7	31	CALACAN	0100	15.6	27		10		08	
	32	CAREROS	0100	03.7	01		05		04	
	33	CAREATH	0100	01.8	00		00		04	
	34	GLYCGRA	66.7	00.4			00		00	
	35	PHRAAUS	66.7	00.2	00		00			
	36	CAREAQU	33.3	02.0					06	
	37	POA PAL	33.3	01.4			04			
	38	EQUIARV	33.3	01.3					04	
	39	CAREMIC	33.3	00.8	02					
	40	ALOPAEQ	33.3	00.4			01			

Group name: DMA11 Willow/M.reedgrass/K.blue

			Avg	Avg	Plots											
					GPWM04		N00108		N00120		N00104		N0099		N0094	
			% P	MC	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg
LAYER	N	SPECIES														
2	1	POPUBAL	33.3	00.9	05								00			
4	2	SALISPP	0100	16.7	35		15		10		20		10		10	
5	3	SALISPP	83.3	00.3			00		00		00		00		00	
	4	ROSAACI	33.3	00.2	01								00			
	5	SYMPOCC	16.7	00.3	01											
6	6	TARAOFF	0100	15.1	41		01		00		12		16		19	
	7	MENTARV	83.3	01.9			06		02		02		00		00	
	8	POTEPAR	66.7	01.1					00		02		02		00	
	9	FRAGVIR	66.7	00.3	01				00		00		00			
	10	PLANMAJ	50.0	00.7							02		01		00	
	11	STACPAL	50.0	00.6					02		01		00			
	12	TRIFHYB	50.0	00.4							01		00		00	
	13	EQUIARV	33.3	00.5									00		02	
	14	CREPTEC	33.3	00.3									00		01	
	15	SCUTGAL	33.3	00.2			01		00							
	16	SIUMSUA	33.3	00.1			00		00							
	17	LATHOCH	16.7	00.3	02											
	18	PETASAG	16.7	00.3					02							
	19	SOLIMIS	16.7	00.1							00					
	20	GALIBOR	16.7	00.1	00											
	21	SMILSTE	16.7	00.1	00											
	22	EPILLAT	16.7	00.0											00	
	23	RUMEACE	16.7	00.0			00									
	24	ACHIMIL	16.7	00.0	00											
	25	ANEMMUL	16.7	00.0	00											
	26	CAMPROT	16.7	00.0	00											
	27	GEUMMAC	16.7	00.0	00											
	28	STELLON	16.7	00.0	00											
7	29	POA PRA	0100	17.1	32		14		15		15		20		04	
	30	CALACAN	0100	15.3	42		27		06		07		03		05	
	31	HORDJUB	83.3	01.1			00		00		03		00		02	
	32	CAREMIC	66.7	00.9					04		00		00		00	
	33	POA PAL	66.7	00.6					01		00		01		00	
	34	CAREROS	66.7	00.3			00		00		00				00	
	35	GLYCGRA	50.0	00.5			00		00				01			
	36	CAREATH	33.3	00.8			00		04							
	37	PHLEPRA	33.3	00.3	00						01					
	38	JUNCBAL	16.7	01.5	09											
	39	ELEOPAL	16.7	00.4											02	
	40	ALOPAEQ	16.7	00.3											02	

(CONTINUED)

Group name: DMA11 Willow/M.reedgrass/K.blue

			Avg	Avg	Plots											
					GPWM04		N00108		N00120		N00104		N0099		N0094	
			% P	MC	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg
LAYER	N	SPECIES														
7	41	BECKSYZ	16.7	00.3											01	
	42	AGROTRA	16.7	00.1	00											

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VEGETATION  REPORT
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RESOURCE INVENTORY, EDMONTON ALBERTA
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Group name: Willow/Horsetail/M. reedgrass
----------------------------------------------
|                         |    |    |  Plots   |
|                         |    |    |----------|
|                         |Avg |Avg |  PRAD03  |
|                         |----+----+----------|
|                         |% P | MC | Cv  | Vg |
|-------------------------+----+----+-----+----|
|LAYER  N       SPECIES  |    |    |     |    |
|4      1       SALISPP  |0100|65.0| 65  |    |
|5      2       ROSAACI  |0100|10.3| 10  |    |
|       3       LONIINV  |0100|01.0| 01  |    |
|6      4       EQUIARV  |0100|17.5| 17  |    |
|       5       PETASAG  |0100|08.7| 08  |    |
|       6       ASTECIL  |0100|08.5| 08  |    |
|       7       MITENUD  |0100|08.0| 08  |    |
|       8       FRAGVIR  |0100|05.2| 05  |    |
|       9       RUBUPUB  |0100|04.3| 04  |    |
|       10      THALVEN  |0100|03.5| 03  |    |
|       11      GEUMALE  |0100|02.5| 02  |    |
|       12      EPILANG  |0100|02.0| 02  |    |
|       13      TARAOFF  |0100|02.0| 02  |    |
|       14      VICIAME  |0100|01.8| 01  |    |
|       15      DELPGLA  |0100|01.0| 01  |    |
|       16      MERTPAN  |0100|00.4| 00  |    |
|       17      GALIBOR  |0100|00.2| 00  |    |
|       18      LATHOCH  |0100|00.2| 00  |    |
|       19      MAIACAN  |0100|00.2| 00  |    |
|       20      POLEACU  |0100|00.2| 00  |    |
|7      21      CALACAN  |0100|22.5| 22  |    |
|       22      CARECAP  |0100|01.1| 01  |    |
|       23      AGROTRA  |0100|00.4| 00  |    |
|       24      BROMCIL  |0100|00.2| 00  |    |
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VEGETATION  REPORT                                                                              12:00 Thursday, October 10, 1996   1
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RESOURCE INVENTORY, EDMONTON ALBERTA
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Group name: Paper birch/Alder/Horsetail
------------------------------------------------
|                         |    |    |  Plots   |
|                         |    |    |----------|
|                         |Avg |Avg | GPD004   |
|                         |----+----+----------|
|                         |% P | MC | Cv | Vg  |
|-------------------------+----+----+----+-----|
|LAYER  N      SPECIES |    |    |    |     |
|1      1      BETUPAP |0100|25.0| 25 |     |
|       2      LARILAR |0100|05.0| 05 |     |
|       3      PICEGLA |0100|03.0| 03 |     |
|4      4      ALNUCRI |0100|45.0| 45 |     |
|       5      SALISPP |0100|03.0| 03 |     |
|5      6      LONIINV |0100|07.5| 07 |     |
|       7      RUBUIDA |0100|02.1| 02 |     |
|       8      LEDUGRO |0100|01.7| 01 |     |
|       9      CORNSTO |0100|01.0| 01 |     |
|       10     RUBUCHA |0100|00.1| 00 |     |
|       11     VIBUEDU |0100|00.1| 00 |     |
|6      12     EQUIARV |0100|27.9| 27 |     |
|       13     RUBUPUB |0100|05.5| 05 |     |
|       14     MITENUD |0100|05.3| 05 |     |
|       15     LINNBOR |0100|03.2| 03 |     |
|       16     GALITRI |0100|01.9| 01 |     |
|       17     ASTEPUN |0100|01.0| 01 |     |
|       18     PETAPAL |0100|00.7| 00 |     |
|       19     CORNCAN |0100|00.5| 00 |     |
|       20     MAIACAN |0100|00.5| 00 |     |
|       21     GALIBOR |0100|00.4| 00 |     |
|       22     ACTARUB |0100|00.1| 00 |     |
|       23     EPILANG |0100|00.1| 00 |     |
|       24     MERTPAN |0100|00.1| 00 |     |
|7      25     CALACAN |0100|08.8| 08 |     |
|       26     CARESPP |0100|02.5| 02 |     |
|8      27     MOSSSPP |0100|06.0| 06 |     |
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Group name: DMA14 Willow/K.bluegrass/Dandel

					Plots			
			Avg	Avg	N0086		N0096	
			% P	MC	Cv	Vg	Cv	Vg
LAYER	N	SPECIES						
2	1	POPUBAL	50.0	00.1	00			
4	2	SALISPP	0100	05.9	01		10	
5	3	SALISPP	50.0	00.1			00	
6	4	TARAOFF	0100	41.3	34		48	
	5	PLANMAJ	0100	03.0	00		05	
	6	MENTARV	0100	01.9	03		00	
	7	FRAGVIR	0100	00.6	01		00	
	8	CREPTEC	0100	00.3	00		00	
	9	RANUACR	50.0	02.0	04			
	10	POTEPAR	50.0	00.5			01	
	11	TRIFHYB	50.0	00.5			01	
	12	MERTPAN	50.0	00.4	00			
	13	SOLIMIS	50.0	00.4			00	
	14	EQUIARV	50.0	00.1			00	
	15	ERIGPHI	50.0	00.1	00			
	16	SCUTGAL	50.0	00.1	00			
7	17	POA PRA	0100	13.5	21		05	
	18	POA PAL	0100	02.4	02		02	
	19	CALACAN	0100	00.9	01		00	
	20	CAREAQU	0100	00.6	00		00	
	21	HORDJUB	0100	00.4	00		00	
	22	CAREATH	50.0	00.4	00			
	23	BECKSYZ	50.0	00.1	00			
	24	CAREROS	50.0	00.1	00			

(DMB)

DRY MIXEDWOOD SUBREGION

TAME FORAGE

COMMUNITY TYPES

VEGETATION SPECIES LIST

Group name: DMB1 K.bluegrass/Clover-Dandeli

					Plots																							
			Avg	Avg	GPFM04		GPFM12		GPL002		GPD003		GPWM01		PRPA02		PRAD04		N0420		N0091		N0002		N0717		N0623	
			% P	MC	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg
LAYER	N	SPECIES																										
2	1	POPUTRE	25.0	00.5															00						03		03	
	2	POPUBAL	08.3	00.4																	05							
4	3	SALISPP	25.0	00.5																	00				00		05	
5	4	ROSAACI	33.3	00.2	00														00		00						01	
	5	SYMPALB	25.0	00.1															00						00		00	
	6	SYMPOCC	08.3	00.4									05															
	7	RUBUIDA	08.3	00.0																	00							
6	8	TARAOFF	0100	36.7	29		34		35		17		69		56		04		14		20		75		48		37	
	9	VICIAME	58.3	00.5					00				00		01		03						00		00		00	
	10	FRAGVIR	50.0	02.1							08						03		00		00				04		08	
	11	ACHIMIL	50.0	01.3							03				05		02		01						01		00	
	12	TRIFREP	33.3	06.5			23		35		18		00															
	13	TRIFHYB	33.3	00.6			03								00				03						01			
	14	GEUMMAC	25.0	00.8											06		01						01					
	15	ASTECIL	25.0	00.1															00						00		00	
	16	GALIBOR	25.0	00.1											00		00										00	
	17	CIRSARV	16.7	01.0			11																		00			
	18	THALVEN	16.7	00.1											00		01											
	19	MERTPAN	16.7	00.0											00		00											
	20	ASTRCIC	08.3	03.3	40																							
	21	POTEPAR	08.3	01.2																	14							
	22	ASTELAE	08.3	00.4													05											
	23	VIOLADU	08.3	00.4							04																	
	24	CERAARV	08.3	00.4													04											
	25	EPILCIL	08.3	00.2													02											
	26	PETASAG	08.3	00.1													01											
	27	UTRIDIO	08.3	00.1																			01					
	28	MITENUD	08.3	00.1													01											
	29	SONCARV	08.3	00.1									01															
	30	VIOLREN	08.3	00.1													01											
	31	PLANPAT	08.3	00.1			00																					
	32	EQUIARV	08.3	00.1																							00	
	33	GEUMALL	08.3	00.1													00											
	34	POLEACU	08.3	00.1													00											
	35	RUBUPUB	08.3	00.1													00											
	36	ARNICHA	08.3	00.0													00											
	37	DESCPIN	08.3	00.0			00																					
	38	PLANMAJ	08.3	00.0											00													
	39	RUBUACA	08.3	00.0											00													
	40	PENTPRO	08.3	00.0							00																	

(CONTINUED)

RESOURCE INVENTORY, EDMONTON ALBERTA

Group name: DMB1 K.bluegrass/Clover-Dandeli

			Avg	Avg	Plots																							
					GPFM04		GPFM12		GPLO02		GPD003		GPWM01		PRPA02		PRAD04		NO420		NO091		NO002		NO717		NO623	
			% P	MC	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg
LAYER	N	SPECIES																										
6	41	SENEIND	08.3	00.0													00											
	42	EPILANG	08.3	00.0																					00			
	43	GENTAMA	08.3	00.0			00																					
	44	MEDISAT	08.3	00.0									00															
	45	POTESPP	08.3	00.0																	00							
	46	SOLIMIS	08.3	00.0																							00	
	47	POTEARG	08.3	00.0									00															
	48	POTEGRA	08.3	00.0			00																					
	49	ANTEPAR	08.3	00.0					00																			
	50	LATHOCH	08.3	00.0									00															
7	51	POA PRA	0100	33.0	32		82		85		76		49		12		07		21		17		04		03		03	
	52	PHLEPRA	41.7	01.7	07										03		07						02		01			
	53	FESTRUB	41.7	00.5	01														02				00		01		00	
	54	BROMINE	25.0	01.5							02		14										00					
	55	ELYMINN	25.0	00.8															03						00		05	
	56	AGROTRA	25.0	00.1									00				00				01							
	57	AGROSCA	16.7	00.7											00		08											
	58	CAREATH	16.7	00.4													02						02					
	59	AGROREP	16.7	00.3			03								00													
	60	CARESPP	16.7	00.2															00						02			
	61	CAREPRA	08.3	00.8											09													
	62	HORDJUB	08.3	00.2			02																					
	63	JUNCBAL	08.3	00.1									01															
	64	AGROPEC	08.3	00.0	00																							
	65	CALACAN	08.3	00.0													00											
	66	POA PAL	08.3	00.0																							00	
	67	BROMCIL	08.3	00.0			00																					
	68	PHELPRA	08.3	00.0									00															
8	69	MOSSSPP	08.3	00.6											07													

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RESOURCE INVENTORY, EDMONTON ALBERTA
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Group name: Kentucky bluegrass/Canada thist
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|                       |    |    |  Plots   |
|                       |    |    |----------|
|                       |Avg |Avg | GPD001   |
|                       |----+----+----------|
|                       |% P | MC | Cv | Vg  |
|-----------------------+----+----+----+----|
|LAYER  N     SPECIES   |    |    |    |     |
|6      1     CIRSARV   |0100|29.4| 29 |     |
|       2     TARAOFF   |0100|19.0| 19 |     |
|       3     TRIFREP   |0100|06.0| 06 |     |
|       4     DELPGLA   |0100|00.1| 00 |     |
|7      5     POA PRA   |0100|74.9| 74 |     |
|       6     HORDJUB   |0100|01.0| 01 |     |
|       7     FESTRUB   |0100|00.5| 00 |     |
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RESOURCE INVENTORY, EDMONTON ALBERTA

Group name: DMB3 Timothy/Dandelion

			Avg	Avg	Plots							
					N0912		PRSA08		PRPA03		PRPA05	
			% P	MC	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg
LAYER	N	SPECIES										
4	1	SALISPP	50.0	09.5					08		30	
5	2	ROSAACI	25.0	00.8			03					
6	3	TARAOFF	0100	21.1	27		03		04		49	
	4	TRIFHYB	75.0	08.9			30		02		03	
	5	VICIAME	75.0	01.9	05		02				00	
	6	ACHIMIL	75.0	00.8			02				01	
	7	FRAGVIR	50.0	03.3	00						12	
	8	ASTECIL	50.0	01.2					00		04	
	9	GALIBOR	50.0	00.7			02				00	
	10	EPILANG	50.0	00.6			02				00	
	11	GEUMMAC	50.0	00.6			02				00	
	12	LATHOCH	50.0	00.1	00						00	
	13	STACPAL	25.0	00.8			03					
	14	EQUIARV	25.0	00.6					02			
	15	PLANMAJ	25.0	00.5			02					
	16	SOLICAN	25.0	00.5			02					
	17	THALVEN	25.0	00.5			02					
	18	RUBUPUB	25.0	00.4							01	
	19	CERAARV	25.0	00.3	01							
	20	ARNICHA	25.0	00.3			01					
	21	GENTAMA	25.0	00.3			01					
	22	MERTPAN	25.0	00.3			01					
	23	PETASAG	25.0	00.2					00			
	24	ASTRSPP	25.0	00.1							00	
	25	MITENUD	25.0	00.0					00			
7	26	PHLEPRA	0100	39.1	07		60		46		43	
	27	BROMINE	50.0	08.3			30				03	
	28	POA PRA	50.0	01.1	04				00			
	29	FESTRUB	25.0	08.8			35					
	30	AGROSCA	25.0	02.5			10					
	31	CARESPP	25.0	02.3					09			
	32	CAREPRA	25.0	00.5			02					
	33	CALACAN	25.0	00.1							00	
8	34	MOSSSPP	25.0	00.9					03			

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[redacted]ATION[redacted]RT                                                              [redacted]:07 [redacted]y, A[redacted]6, 1[redacted]5
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RESOURCE INVENTORY, EDMONTON ALBERTA
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Group name: Foxtail barley/Sweet clover
---------------------------------------------
|                       |    |    |  Plots  |
|                       |    |    |---------|
|                       |Avg |Avg | GPEP03  |
|                       |----+----+---------|
|                       |% P | MC | Cv | Vg |
|-----------------------+----+----+----+----|
|LAYER  N      SPECIES  |    |    |    |    |
|6      1      MEDIFAL  |0100|11.0| 11 |    |
|       2      TRIFHYB  |0100|05.0| 05 |    |
|       3      MELIOFF  |0100|04.0| 04 |    |
|       4      PLANMAJ  |0100|04.0| 04 |    |
|       5      CIRSARV  |0100|02.4| 02 |    |
|       6      OXYTDEF  |0100|02.0| 02 |    |
|       7      CREPTEC  |0100|00.4| 00 |    |
|       8      POTEARG  |0100|00.4| 00 |    |
|       9      TARAOFF  |0100|00.4| 00 |    |
|7      10     HORDJUB  |0100|68.8| 68 |    |
|       11     PHLEPRA  |0100|18.0| 18 |    |
|       12     POA PAL  |0100|01.0| 01 |    |
|       13     BROMINE  |0100|00.4| 00 |    |
---------------------------------------------
```

RESOURCE INVENTORY, EDMONTON ALBERTA

Group name: DMB5 Quackgrass/Dandelion

			Avg	Avg	Plots			
					N00119		PRHU03	
			% P	MC	Cv	Vg	Cv	Vg
LAYER	N	SPECIES						
2	1	POPUBAL	50.0	02.5	05			
5	2	RUBUIDA	50.0	15.0			30	
6	3	TARAOFF	0100	26.5	28		25	
	4	ACHIMIL	0100	01.1	00		02	
	5	VICIAME	0100	01.1	01		01	
	6	LATHOCH	50.0	01.0			02	
	7	GALIBOR	50.0	00.5			01	
	8	GEUMMAC	50.0	00.5			01	
	9	TRIFHYB	50.0	00.4	00			
7	10	AGROREP	0100	28.5	12		45	
	11	BROMINE	0100	10.6	06		15	
	12	POA PRA	0100	08.1	06		10	
	13	FESTRUB	50.0	07.5			15	
	14	PHLEPRA	50.0	00.1	00			
	15	POA PAL	50.0	00.1	00			

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RESOURCE INVENTORY, EDMONTON ALBERTA
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Group name: Reed canarygrass/Cicer milkvetc
--------------------------------------------
|                   |    |    |  Plots   |
|                   |    |    |---------|
|                   |Avg |Avg |  GPPI01  |
|                   |----+----+---------|
|                   |% P | MC | Cv | Vg |
|-------------------+----+----+----+----|
|LAYER  N    SPECIES |    |    |    |    |
|6      1    ASTRCIC |0100|26.5| 26 |    |
|       2    TRIFREP |0100|06.3| 06 |    |
|       3    TARAOFF |0100|02.3| 02 |    |
|       4    LATHOCH |0100|00.5| 00 |    |
|       5    LOTUPAN |0100|00.5| 00 |    |
|       6    VICIAME |0100|00.3| 00 |    |
|7      7    PHALARU |0100|55.0| 55 |    |
|       8    FESTRUB |0100|11.0| 11 |    |
|       9    PHLEPRA |0100|07.5| 07 |    |
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Group name: DMB7 C.red fescue/Clover-Dandel

			Avg	Avg	Plots																									
					S0154		S3064		S0960		S0658		S0866		S1068		S1946		S1540		S2249		S2452		S2551		S2653		S0557	
			% P	MC	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg
LAYER	N	SPECIES																												
2	1	POPUTRE	58.1	03.9			01		10		10		15		04		01		00		10		00		10		15			
	2	POPUBAL	09.7	00.7			10																00							
4	3	SALIDIS	03.2	00.2																										
	4	SALIBEB	03.2	00.0													01													
	5	SALISPP	03.2	00.0															00											
5	6	ROSAACI	61.3	02.2	00		01		01		02		04		06		05		02		00		05		01		01		03	
	7	SYMPALB	54.8	00.4	00				02		01				00		03		00				00		00		00			
	8	RUBUIDA	25.8	00.2			00				01						01		00				00						00	
	9	RUBUPUB	19.4	00.1			01						00		01						00		01				00			
	10	AMELALN	09.7	00.0					00																00				00	
	11	RIBEOXY	06.5	00.1															03											
	12	SYMPOCC	06.5	00.0																										
	13	VACCCAE	03.2	00.0																										
6	14	TARAOFF	83.9	11.1	09				01				01		00				01				00		00		00		02	
	15	TRIFHYB	83.9	09.5	14		11		08		19		14		10		15		06		11		07		17		12		20	
	16	VICIAME	77.4	01.0	00		02		02		01		00		00		01		03		01		01		03		03			
	17	FRAGVIR	74.2	01.5	00				01		02		02		04		01		01				00		00		00		01	
	18	GALIBOR	64.5	00.5	00		00		00		01				02		01		01				01		00				02	
	19	TRIFREP	54.8	01.4	04		00				01		01		00		01								00		06		02	
	20	EQUIARV	54.8	00.6			01		01		01		01		00		00				01		00				02		00	
	21	ASTECIL	54.8	00.6	00		00		00		00		01		00		01		02		01		00		00		00		00	
	22	LATHOCH	54.8	00.5			01		00		01		00				00		02		00		00		01		02		00	
	23	ACHIMIL	35.5	00.5	00				00																					
	24	MEDISAT	32.3	00.5	04		01		01										00				00						00	
	25	MERTPAN	29.0	00.2			00				00				00								00		02		00			
	26	CREPTEC	19.4	00.1			00		00		00																		01	
	27	CERAARV	16.1	00.1	00																								00	
	28	PETAPAL	16.1	00.1			00		00										01		00						00			
	29	MAIACAN	12.9	00.0									00										00		00					
	30	TRIFPRA	09.7	00.2																										
	31	VIOLADU	06.5	00.1																										
	32	SOLIMIS	06.5	00.1			01																							
	33	ASTECON	06.5	00.0			00																00							
	34	THALOCC	06.5	00.0																										
	35	EQUISCI	06.5	00.0																										
	36	CAMPROT	06.5	00.0																										
	37	EPILANG	03.2	00.1			03																							
	38	PLANMAJ	03.2	00.0																										
	39	CIRSARV	03.2	00.0																										
	40	SISYMON	03.2	00.0																										

(CONTINUED)

RESOURCE INVENTORY, EDMONTON ALBERTA

Group name: DMB7 C.red fescue/Clover-Dandel

			Avg	Avg	Plots																									
					S0154		S3064		S0960		S0658		S0866		S1068		S1946		S1540		S2249		S2452		S2551		S2653		S0557	
			% P	MC	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg
LAYER	N	SPECIES																												
6	41	VIOLCAN	03.2	00.0															00											
	42	ARABSPP	03.2	00.0					00																					
	43	CIRSVUL	03.2	00.0	00																									
	44	CORNCAN	03.2	00.0																										
	45	HERALAN	03.2	00.0																										
	46	POTEGRA	03.2	00.0																	00									
	47	POTESPP	03.2	00.0																									00	
	48	SMILSTE	03.2	00.0																										
	49	THLAARV	03.2	00.0											00															
	50	EQUILAE	03.2	00.0																										
	51	ASTEMOD	03.2	00.0																										
	52	ERIGPHI	03.2	00.0																										
	53	LATHVEN	03.2	00.0																										
	54	SALISPP	03.2																											
7	55	FESTRUB	0100	23.3	17		09		09		12		18		14		10		11		16		23		15		10		11	
	56	POA PRA	71.0	04.5					00				00		00				01		01								01	
	57	PHLEPRA	64.5	05.5	04		07		05				04		05		05		08		18		17		13		12		07	
	58	CARESPP	41.9	00.7									04		00												00		01	
	59	ELYMINN	38.7	00.6			00				02		00						01										00	
	60	BROMINE	22.6	01.5																										
	61	AGROREP	06.5	00.9																										
	62	HORDJUB	06.5	00.0																										
	63	AGROTRA	03.2	00.2																										
	64	AGROPEC	03.2	00.1																										
	65	FESTSAX	03.2	00.0																										
	66	SCHIPUR	03.2	00.0																										
	67	POA PAL	03.2	00.0																										
	68	CORNCAN	03.2	00.0																			00							
	69	EPILANG	03.2	00.0																			00							
	70	BROMCIL	03.2	00.0																										

(CONTINUED)

Group name: DMB7 C.red fescue/Clover-Dandel

			Plots																											
			S0267		S0455		N0225		N0815		N0519		N2214		N2622		N0121		N1008		GPFM07		GPFM13		GPFM14		GPFM30		GPFM44	
			Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg
LAYER	N	SPECIES																												
2	1	POPUTRE	00				20		05		02		02		03				10											
	2	POPUBAL															10													
4	3	SALIDIS																											05	
	4	SALIBEB																												
	5	SALISPP																												
5	6	ROSAACI	01														01		00								00			
	7	SYMPALB	00				00		00		00		00		00		01		00											
	8	RUBUIDA	00																00											
	9	RUBUPUB																												
	10	AMELALN																												
	11	RIBEOXY							00																					
	12	SYMPOCC																									00			
	13	VACCCAE			00																									
6	14	TARAOFF	01		10		38		29		39		42		16		16		25		03		21		21		16		31	
	15	TRIFHYB	12		11		03		00		01		02		05		11		18		22		06						30	
	16	VICIAME	00		00		00		00				01				01				01		00		00		00			
	17	FRAGVIR	02		00		05		04		02		04		01		04		02				01		00					
	18	GALIBOR			00		01		00		01				00		01		00								00			
	19	TRIFREP	02		01																00		09		08				03	
	20	EQUIARV	01		01		01				00		00				04		00											
	21	ASTECIL			01		02				00								01											
	22	LATHOCH			00		00		00		00				00		00													
	23	ACHIMIL			01				00		01						00								03		00			
	24	MEDISAT	03		00																									
	25	MERTPAN	00														00		00											
	26	CREPTEC	00																											
	27	CERAARV							00				00																	
	28	PETAPAL																												
	29	MAIACAN									00																			
	30	TRIFPRA																			00									
	31	VIOLADU																									01			
	32	SOLIMIS															00													
	33	ASTECON																												
	34	THALOCC													00		00													
	35	EQUISCI																												
	36	CAMPROT																												
	37	EPILANG																												
	38	PLANMAJ																											01	
	39	CIRSARV																					00							
	40	SISYMON																												

(CONTINUED)

Group name: DMB7 C.red fescue/Clover-Dandel

			Plots																											
			S0267		S0455		N0225		N0815		N0519		N2214		N2622		N0121		N1008		GPFM07		GPFM13		GPFM14		GPFM30		GPFM44	
			Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg
LAYER	N	SPECIES																												
6	41	VIOLCAN																												
	42	ARABSPP																												
	43	CIRSVUL																												
	44	CORNCAN					00																							
	45	HERALAN									00																			
	46	POTEGRA																												
	47	POTESPP																												
	48	SMILSTE			00																									
	49	THLAARV																												
	50	EQUILAE																												
	51	ASTEMOD																												
	52	ERIGPHI																												
	53	LATHVEN																												
	54	SALISPP																												
7	55	FESTRUB	12		13		11		10		11		07		06		13		09		74		61		60		25		26	
	56	POA PRA			03		02		02		01		02		03		02		06		01		21				36		13	
	57	PHLEPRA	04		04								00						05		25		01						20	
	58	CARESPP	01		00										02		01		00						03		03			
	59	ELYMINN					02		02		01		02		00		03		00											
	60	BROMINE																							01		00		02	
	61	AGROREP																									00			
	62	HORDJUB																							00					
	63	AGROTRA																												
	64	AGROPEC																			02									
	65	FESTSAX																							01					
	66	SCHIPUR							01																					
	67	POA PAL																			00									
	68	CORNCAN																												
	69	EPILANG																												
	70	BROMCIL																					00							

(CONTINUED)

Group name: DMB7 C.red fescue/Clover-Dandel

			Plots							
			GPFM16		GPFM35		GPFM41		GPEP01	
			Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg
LAYER	N	SPECIES								
2	1	POPUTRE								
	2	POPUBAL								
4	3	SALIDIS								
	4	SALIBEB								
	5	SALISPP								
5	6	ROSAACI					03		25	
	7	SYMPALB								
	8	RUBUIDA								
	9	RUBUPUB								
	10	AMELALN								
	11	RIBEOXY								
	12	SYMPOCC					00			
	13	VACCCAE								
6	14	TARAOFF	02				01		07	
	15	TRIFHYB			00					
	16	VICIAME					00		00	
	17	FRAGVIR							01	
	18	GALIBOR					00		00	
	19	TRIFREP	00		00					
	20	EQUIARV								
	21	ASTECIL								
	22	LATHOCH								
	23	ACHIMIL	02				04		00	
	24	MEDISAT			02				00	
	25	MERTPAN								
	26	CREPTEC							00	
	27	CERAARV					01			
	28	PETAPAL								
	29	MAIACAN								
	30	TRIFPRA					00		05	
	31	VIOLADU					02			
	32	SOLIMIS								
	33	ASTECON								
	34	THALOCC								
	35	EQUISCI	00						00	
	36	CAMPROT	00				00			
	37	EPILANG								
	38	PLANMAJ								
	39	CIRSARV								
	40	SISYMON					00			

(CONTINUED)

RESOURCE INVENTORY, EDMONTON ALBERTA

Group name: DMB7 C.red fescue/Clover-Dandel

			Plots							
			GPFM16		GPFM35		GPFM41		GPEP01	
			Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg
LAYER	N	SPECIES								
6	41	VIOLCAN								
	42	ARABSPP								
	43	CIRSVUL								
	44	CORNCAN								
	45	HERALAN								
	46	POTEGRA								
	47	POTESPP								
	48	SMILSTE								
	49	THLAARV								
	50	EQUILAE					00			
	51	ASTEMOD					00			
	52	ERIGPHI					00			
	53	LATHVEN							00	
	54	SALISPP								
7	55	FESTRUB	38		41		52		64	
	56	POA PRA	23		08		08		00	
	57	PHLEPRA			00					
	58	CARESPP	03				00			
	59	ELYMINN								
	60	BROMINE	20		03		14		02	
	61	AGROREP			26					
	62	HORDJUB			00					
	63	AGROTRA							06	
	64	AGROPEC								
	65	FESTSAX								
	66	SCHIPUR								
	67	POA PAL								
	68	CORNCAN								
	69	EPILANG								
	70	BROMCIL								

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RESOURCE INVENTORY, EDMONTON ALBERTA
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Group name: Smooth brome-C. red fescue/Stra

--------------------------------------------
|                         |    |    | Plots  |
|                         |    |    |--------|
|                         |Avg |Avg | PRHU04 |
|                         |----+----+--------|
|                         |% P | MC | Cv | Vg |
|-------------------------+----+----+----+---|
|LAYER  N     SPECIES  |    |    |    |    |
|4      1     SALIBEB  |0100|02.0| 02 |    |
|5      2     ROSAACI  |0100|02.0| 02 |    |
|6      3     FRAGVIR  |0100|35.0| 35 |    |
|       4     TARAOFF  |0100|20.0| 20 |    |
|       5     TRIFHYB  |0100|15.0| 15 |    |
|       6     EQUIARV  |0100|10.0| 10 |    |
|       7     GALIBOR  |0100|04.0| 04 |    |
|       8     ASTECIL  |0100|02.0| 02 |    |
|       9     CREPTEC  |0100|02.0| 02 |    |
|       10    LATHOCH  |0100|02.0| 02 |    |
|       11    ACHIMIL  |0100|01.0| 01 |    |
|       12    ANTEPAR  |0100|01.0| 01 |    |
|       13    CIRSARV  |0100|01.0| 01 |    |
|       14    EPILANG  |0100|01.0| 01 |    |
|       15    MERTPAN  |0100|01.0| 01 |    |
|       16    VICIAME  |0100|01.0| 01 |    |
|7      17    BROMINE  |0100|75.0| 75 |    |
|       18    FESTRUB  |0100|60.0| 60 |    |
|       19    BROMCIL  |0100|10.0| 10 |    |
|       20    PHLEPRA  |0100|05.0| 05 |    |
|       21    POA PRA  |0100|05.0| 05 |    |
|       22    CAREPRA  |0100|03.0| 03 |    |
|       23    CALACAN  |0100|01.0| 01 |    |
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Group name: DMB9 Aw/Strawberry/H.wildrye

			Avg	Avg	Plots									
					N0324		N00109		N1227		N1105		S2047	
			% P	MC	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg
LAYER	N	SPECIES												
2	1	POPUTRE	0100	13.8	20		20		10		10		08	
	2	POPUBAL	40.0	00.4			01						00	
4	3	SALISPP	20.0	00.8			04							
5	4	ROSAACI	0100	02.8	00		04		01		03		04	
	5	RUBUIDA	80.0	01.2			00		02		02		01	
	6	SYMPALB	80.0	01.1	01		00		02				01	
	7	RUBUPUB	40.0	00.3			01		00					
	8	VACCCAE	20.0	01.5									07	
	9	SHEPCAN	20.0	00.3									01	
	10	LINNBOR	20.0	00.3									01	
	11	RIBEOXY	20.0	00.2			01							
	12	ARCTUVA	20.0	00.1									00	
6	13	FRAGVIR	0100	05.4	02		04		08		02		12	
	14	TARAOFF	80.0	15.0	40		01		09		23			
	15	GALIBOR	80.0	01.8	00				01		03		03	
	16	ASTECIL	80.0	01.6	01		00		03				03	
	17	EQUIARV	80.0	01.5	03		00		01		02			
	18	SOLIMIS	80.0	00.9	00				02		00		00	
	19	VICIAME	80.0	00.8	00		00				02		00	
	20	TRIFHYB	60.0	02.2	02				05		02			
	21	ASTECON	60.0	00.9			00		00		03			
	22	CORNCAN	60.0	00.7			01				00		01	
	23	LATHOCH	60.0	00.6	00		00						02	
	24	MERTPAN	60.0	00.3			00		00		00			
	25	VIOLCAN	40.0	00.9					01		02			
	26	MAIACAN	40.0	00.6							00		02	
	27	EPILANG	40.0	00.3					01		00			
	28	SMILSTE	40.0	00.1	00						00			
	29	PLANMAJ	20.0	00.2	00									
	30	PYROASA	20.0	00.2									00	
	31	POTESPP	20.0	00.1			00							
	32	RUMESPP	20.0	00.1			00							
	33	ACHIMIL	20.0											
7	34	ELYMINN	0100	05.8	02		01		15		05		05	
	35	POA PRA	60.0	04.5	05				08		08			
	36	FESTRUB	60.0	01.6	05						02		00	
	37	CALACAN	40.0	01.1			04						01	
	38	PHLEPRA	20.0	00.8							04			
	39	ORYZASP	20.0	00.6									03	
	40	SCHIPUR	20.0	00.1									00	

(DMC)

DRY MIXEDWOOD SUBREGION

DECIDUOUS

COMMUNITY TYPES

VEGETATION SPECIES LIST

Group name: DMC1 Aw/Rose/Bearberry

			Avg	Avg	Plots																			
					FM25		FM31		FM40		N00132		N3033		N2726		N2731		N2830		N3829		N3726	
			% P	MC	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg
LAYER	N	SPECIES																						
1	1	POPUTRE	0100	39.5	35		75		35		30		40		50		35		25		20		50	
	2	PICEGLA	50.0	02.7	01				15				05		03								03	
	3	PINUBAN	20.0	00.3	02				01															
	4	BETUPAP	10.0	00.1	01																			
2	5	POPUTRE	60.0	00.5							01		00		00		01				01		00	
4	6	CORYCOR	10.0	00.9	09																			
	7	SALISPP	10.0	00.3	03																			
5	8	ROSAACI	0100	07.0	17		03		21		02		02		04		00		09		04		04	
	9	AMELALN	0100	04.4	14		03		07		00		02		00		03		06		06		00	
	10	SYMPOCC	70.0	01.0	02		04		00						00		01		01				00	
	11	VACCCAE	60.0	02.9									01		09		02		00		05		09	
	12	LONIDIO	30.0	00.3			02		00												00			
	13	SHEPCAN	30.0	00.3			00		01		00													
	14	VACCMYR	30.0	00.3	00		01		01															
	15	ARCTUVA	20.0	05.5	25				29															
	16	VACCVIT	10.0	00.5	04																			
	17	PRUNVIR	10.0	00.1	01																			
6	18	LATHOCH	0100	11.6	06		03		10		02		13		31		03		08		05		31	
	19	MAIACAN	0100	05.7	04		05		09		03		08		07		04		03		02		07	
	20	FRAGVIR	0100	04.0	01		02		01		02		02		07		05		04		05		07	
	21	LINNBOR	90.0	07.3	07		07		08		05		12		14				00		02		14	
	22	COMAUMB	90.0	03.0	02				00		00		02		05		04		06		03		05	
	23	ASTECIL	90.0	02.0	01		02		06		00		02				02		03		01			
	24	GALIBOR	90.0	01.9	01				01		00		02		00		06		02		02		00	
	25	ARCTUVA	80.0	11.8			36				09		10		11		13		09		16		11	
	26	CORNCAN	70.0	01.5	04		00		00		01		01		03								03	
	27	ACHIMIL	70.0	00.6	00		00		00		00						00		03		00			
	28	VICIAME	50.0	00.2	00				00		00						00		00					
	29	PYROASA	40.0	00.5					01		00		02								00			
	30	ARALNUD	30.0	00.7	03								02								01			
	31	ASTECON	20.0	00.2													00		01					
	32	MELALIN	20.0	00.2			01				00													
	33	ORTHSEC	20.0	00.2			01				00													
	34	TARAOFF	20.0	00.1			01				00													
	35	LILIPHI	20.0	00.1	00												00							
	36	ANEMMUL	20.0	00.1									00						00					
	37	EQUIARV	20.0	00.1											00								00	
	38	SOLIMIS	20.0	00.1													00		00					
	39	VIOLCAN	10.0	00.3									02											
	40	VACCCAE	10.0	00.2							01													

(CONTINUED)

Group name: DMC1 Aw/Rose/Bearberry

					Plots																			
			Avg	Avg	FM25		FM31		FM40		N00132		N3033		N2726		N2731		N2830		N3829		N3726	
			% P	MC	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg
LAYER	N	SPECIES																						
6	41	SOLINEM	10.0	00.2					01															
	42	EQUIHYE	10.0	00.1							00													
	43	RUBUPUB	10.0	00.1	00																			
	44	SPIRBET	10.0	00.1			00																	
	45	VIOLADU	10.0	00.1					00															
	46	HIERCYN	10.0	00.0			00																	
7	47	ELYMINN	0100	06.9	16		00		15		01		02		12		01		03		01		12	
	48	ORYZPUN	80.0	03.4					02		00		03		06		10		01		03		06	
	49	SCHIPUR	80.0	02.8	01		10		04		01		05				00		02		01			
	50	ORYZASP	70.0	07.2	12		22		03				01				08		17		05			
	51	CAREPRA	20.0	00.4	02				01															
	52	CAREOBT	20.0	00.3									00								02			
	53	FESTSAX	10.0	00.2																	01			
	54	CARESPP	10.0	00.1													01							
	55	POA PRA	10.0	00.0					00															
	56	AGROTRA	10.0	00.0							00													
8	57	MOSS	10.0	00.5					05															

RESOURCE INVENTORY, EDMONTON ALBERTA

Group name: DMC2 Aw/Rose/Tall forb

			Avg	Avg	Plots																									
					GROVE10		N00100		N00101		N00103		N0077		N0079		N0080		N0083		N0090		N0093		N1304		N1906		N2007	
			% P	MC	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg
LAYER	N	SPECIES																												
1	1	POPUTRE	0103	42.7	30		40		35		30		25		35		15		35		25		30		40		40		35	
	2	POPUBAL	26.7	01.3	10								05																05	
	3	BETUPAP	13.3	00.3																										
	4	PICEGLA	03.3	00.1																										
	5	PINUCON	03.3	00.1																										
2	6	POPUTRE	56.7	00.6			00		00				00		00		00		00		01						00		04	
	7	POPUBAL	10.0	00.1									00						01										02	
	8	PICEGLA	06.7	00.1																										
4	9	CORYCOR	10.0	00.5																										
	10	SALISPP	06.7	00.7																										
	11	ALNUCRI	06.7	00.2																										
	12	SALIBEB	03.3	00.2																										
5	13	ROSAACI	0103	09.5	20		06		04		04		05		06		06		07		04		07		07		07		03	
	14	RUBUIDA	96.7	05.2			04		06		04		09		04		06		04		00		06		04		04		03	
	15	SYMPOCC	93.3	03.6	02		03		01		03		01		00		00		01		01		04		02		05		10	
	16	VIBUEDU	76.7	03.7	36		00		02		01		01		03		00		01		03				00		02		01	
	17	AMELALN	43.3	01.2			00								00										00				00	
	18	CORNSTO	33.3	01.2	08								00										01							
	19	LONIINV	30.0	01.6	02																		00							
	20	LONIDIO	30.0	00.4	02														03				00		00					
	21	SHEPCAN	26.7	01.0	08								00																	
	22	PRUNVIR	13.3	00.1																					00					
	23	CORYCOR	10.0	00.9											12		12													
	24	VIBUOPU	10.0	00.2																										
	25	RIBETRI	10.0	00.1																			00							
	26	SPIRBET	10.0	00.1	02																									
	27	SALISPP	06.7	00.5	14																									
	28	VACCCAE	06.7	00.4																										
	29	RIBELAC	06.7	00.3																										
	30	LINNBOR	06.7	00.2	06																									
	31	CORNCAN	06.7	00.1	04																									
	32	RUBUPUB	06.7	00.1	04																									
	33	VACCMYR	06.7	00.1	02																									
	34	RIBEOXY	06.7	00.0															00				00							
	35	ELAECOM	03.3	00.1																										
6	36	LATHOCH	96.7	08.6			08		07		08		07		04		04		05		09		08		06		04		05	
	37	MAIACAN	96.7	03.7	02		04		02		02		05		02		03		04		04		03		06		12			
	38	PYROASA	93.3	02.7	02		00		02		00		00		02		01				01		02		04		00		02	
	39	GALIBOR	90.0	01.6			03		02		01		01		00		00		01		03		01		02		01		01	
	40	CORNCAN	83.3	07.3			02		07		06				06		05		05		11		10		04		02		02	

(CONTINUED)

Group name: DMC2 Aw/Rose/Tall forb

			Avg	Avg	Plots																									
					GROVE10		N00100		N00101		N00103		N0077		N0079		N0080		N0083		N0090		N0093		N1304		N1906		N2007	
			% P	MC	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg
LAYER	N	SPECIES																												
6	41	FRAGVIR	83.3	02.2	02		02				00		01		02		01		04		03		01		00		00		01	
	42	ARALNUD	76.7	11.9			00								19		07		11		05				07		14		05	
	43	RUBUPUB	76.7	02.9			04		07		06		02		01		01		07		04		03						01	
	44	PETAPAL	76.7	01.5	02		01		02		05		01		00				01		01		00				00			
	45	ASTECIL	76.7	01.0	02		02		00		02		00		00						04		00		00		00			
	46	MERTPAN	66.7	01.3	02		01		02		03		01		01				09						00		04		01	
	47	LINNBOR	60.0	02.4					06						05		02		01		07									
	48	VICIAME	60.0	00.9					00		00						01		00		01				01		00			
	49	EPILANG	50.0	01.1	02								00		00		00						01						01	
	50	ASTECON	40.0	00.5					00				01						01		00								00	
	51	EQUIARV	40.0	00.4			00		00		01												00				01			
	52	DISPTRA	30.0	00.9									00		01		01												06	
	53	VIOLCAN	26.7	00.5																					02		00			
	54	TARAOFF	26.7	00.1			00		00		00																			
	55	ORTHSEC	20.0	00.1																			01		00					
	56	APOCAND	16.7	00.3													01													
	57	SMILSTE	16.7	00.1			00								00				00											
	58	THALVEN	13.3	00.3																					04					
	59	MITENUD	13.3	00.2	02																									
	60	GALITRI	13.3	00.1																										
	61	FRAGVES	06.7	00.1																										
	62	VIOLREN	06.7	00.1	02																									
	63	RUBUPED	03.3	00.1																										
	64	OSMOCHI	03.3	00.1																										
	65	DELPGLA	03.3	00.1																										
	66	ACTARUB	03.3	00.0																							01			
	67	LILIPHI	03.3	00.0																										
	68	ACHIMIL	03.3	00.0																										
	69	ARCTUVA	03.3	00.0																										
7	70	CALACAN	83.3	01.7	02		00		01		01				02		01				02		01		04		01		01	
	71	ELYMINN	76.7	02.0			02		01		02		03		01		07		01		00		03		02				04	
	72	SCHIPUR	30.0	00.3															00		01				00					
	73	ORYZASP	16.7	00.9																										
	74	AGROTRA	16.7	00.3															03		02						00			
	75	BROMCIL	13.3	00.2			02																							
	76	CARESPP	10.0	00.2	02																									
	77	CAREPRA	03.3	00.0																										
8	78	MOSSSPP	06.7	01.0																										

(CONTINUED)

RESOURCE INVENTORY, EDMONTON ALBERTA

Group name: DMC2 Aw/Rose/Tall forb

			Plots																									
			N2418		N2932		N3410		S1137		S1236		S1436		N1801		N1403		N0084		FM08		FM11		FM15		L005		WM03	
			Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg
LAYER	N	SPECIES																												
1	1	POPUTRE	35		30		40		40		40		40		30		30		25		55		65		60		50		70	
	2	POPUBAL											05								05						05			
	3	BETUPAP																			01		05		01					
	4	PICEGLA																												
	5	PINUCON																												
2	6	POPUTRE			00		00		00		00		00		00		03		01											
	7	POPUBAL																												
	8	PICEGLA									02																01			
4	9	CORYCOR																			00		10							
	10	SALISPP																			05									
	11	ALNUCRI							00		06																			
	12	SALIBEB																					05							
5	13	ROSAACI	05		06		13		13		02		14		12		10		03		06		19		01		20		23	
	14	RUBUIDA	03		02		02		06		04		04		03		00		08		07		05		10		09		03	
	15	SYMPOCC	04				03		12		04		02		03		01		02		02				02		07		16	
	16	VIBUEDU	00				07		02		00		00						00								07		04	
	17	AMELALN			01				01						05								02				01		01	
	18	CORNSTO									00										01		00		00		13			
	19	LONIINV					05		00						00						05				32					
	20	LONIDIO			02				00														01							
	21	SHEPCAN											00				10		00											
	22	PRUNVIR																					00							
	23	CORYCOR																												
	24	VIBUOPU																			00		03		03					
	25	RIBETRI					01										00													
	26	SPIRBET									00																			
	27	SALISPP																												
	28	VACCCAE											10		01															
	29	RIBELAC																					06		01					
	30	LINNBOR																												
	31	CORNCAN																												
	32	RUBUPUB																												
	33	VACCMYR																												
	34	RIBEOXY																												
	35	ELAECOM																												
6	36	LATHOCH	10		06		07		15		17		03		16		23		10		27		03		14		04		08	
	37	MAIACAN	00		02		02		04		04		01		07		13		01		02		05		00				05	
	38	PYROASA	04		05		01		07		07				06		02		00		01		03		00		03		12	
	39	GALIBOR	01		01		01		01		01		02		02		01		02		02		01				01		02	
	40	CORNCAN	09		06		04		05		08		15		13		08		02		17				10		33		03	

(CONTINUED)

Group name: DMC2 Aw/Rose/Tall forb

			Plots																									
			N2418		N2932		N3410		S1137		S1236		S1438		N1801		N1403		N0084		FM08		FM11		FM15		L005		WM03	
			Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg
LAYER	N	SPECIES																												
6	41	FRAGVIR	00		02		01		05		04		04		10		04		04				03						02	
	42	ARALNUD			14		09		01		02		10						14		45		19		57		14		37	
	43	RUBUPUB	02		04		03								01		02		02		01				00		02		06	
	44	PETAPAL			01		02		03		01		04				01		00		04				02		01		01	
	45	ASTECIL			00				03		01				00				00		00		00		00		02			
	46	MERTPAN	01				00		00		00						01				03				00		01			
	47	LINNBOR			02		04		12				00		04		01		04				10				03		01	
	48	VICIAME	02						00						01		00		00		11		01				00		04	
	49	EPILANG					00						01		01		00		01								07		06	
	50	ASTECON							01				03						00		02		01						01	
	51	EQUIARV	00		00		01										00						01				00			
	52	DISPTRA																			02		01				06			
	53	VIOLCAN	01				00		06		02																01			
	54	TARAOFF	00										00		00								00							
	55	ORTHSEC															00										00			
	56	APOCAND																			02		00							
	57	SMILSTE																			00				01					
	58	THALVEN	00								00												05							
	59	MITENUD																							00		04			
	60	GALITRI									00														00		00			
	61	FRAGVES																			01				01					
	62	VIOLREN																												
	63	RUBUPED																					03							
	64	OSMOCHI																									01			
	65	DELPGLA																									01			
	66	ACTARUB																												
	67	LILIPHI																					00							
	68	ACHIMIL																					00							
	69	ARCTUVA															00													
7	70	CALACAN	03		02		01		00				00						00		03		00		02		09		03	
	71	ELYMINN	02		02		00		00		01		05		02		02		01		00								07	
	72	SCHIPUR											01		00		00		00				02							
	73	ORYZASP											02		04		00						00							
	74	AGROTRA																	02						00					
	75	BROMCIL																					01						02	
	76	CARESPP																											05	
	77	CAREPRA																					01							
8	78	MOSSSPP																					30		01					

(CONTINUED)

Group name: DMC2 Aw/Rose/Tall forb

			Plots					
			WM06		EP04		GPKI09	
			Cv	Vg	Cv	Vg	Cv	Vg
LAYER	N	SPECIES						
1	1	POPUTRE	65		65		25	
	2	POPUBAL	03					
	3	BETUPAP	01					
	4	PICEGLA	03					
	5	PINUCON	02					
2	6	POPUTRE						
	7	POPUBAL						
	8	PICEGLA						
4	9	CORYCOR	05					
	10	SALISPP			15			
	11	ALNUCRI						
	12	SALIBEB						
5	13	ROSAACI	14		24		01	
	14	RUBUIDA	15		06		00	
	15	SYMPOCC	00		05			
	16	VIBUEDU	04				29	
	17	AMELALN	02		18		01	
	18	CORNSTO					09	
	19	LONIINV	00					
	20	LONIDIO			01			
	21	SHEPCAN	08		00			
	22	PRUNVIR			00		02	
	23	CORYCOR					01	
	24	VIBUOPU						
	25	RIBETRI						
	26	SPIRBET						
	27	SALISPP						
	28	VACCCAE						
	29	RIBELAC						
	30	LINNBOR						
	31	CORNCAN						
	32	RUBUPUB						
	33	VACCMYR						
	34	RIBEOXY						
	35	ELAECOM					02	
6	36	LATHOCH	04		03		01	
	37	MAIACAN	04		00		02	
	38	PYROASA	02				00	
	39	GALIBOR	01		01			
	40	CORNCAN	12					

(CONTINUED)

Group name: DMC2 Aw/Rose/Tall forb

			Plots					
			WM06		EP04		GPKI09	
			Cv	Vg	Cv	Vg	Cv	Vg
LAYER	N	SPECIES						
6	41	FRAGVIR			00			
	42	ARALNUD	26		15		19	
	43	RUBUPUB	16		00		03	
	44	PETAPAL	02					
	45	ASTECIL	00		01		01	
	46	MERTPAN	00					
	47	LINNBOR	03		00		00	
	48	VICIAME	00		00			
	49	EPILANG	07					
	50	ASTECON			00			
	51	EQUIARV	01					
	52	DISPTRA			03		04	
	53	VIOLCAN					00	
	54	TARAOFF			00			
	55	ORTHSEC	01		00			
	56	APOCAND			00		03	
	57	SMILSTE						
	58	THALVEN						
	59	MITENUD						
	60	GALITRI					00	
	61	FRAGVES						
	62	VIOLREN						
	63	RUBUPED						
	64	OSMOCHI						
	65	DELPGLA						
	66	ACTARUB						
	67	LILIPHI						
	68	ACHIMIL						
	69	ARCTUVA						
7	70	CALACAN	03				00	
	71	ELYMINN			02			
	72	SCHIPUR			00			
	73	ORYZASP			21			
	74	AGROTRA						
	75	BROMCIL			00			
	76	CARESPP						
	77	CAREPRA						
8	78	MOSSSPP						

RESOURCE INVENTORY, EDMONTON ALBERTA

Group name: DMC3 Aw/Rose/Low forb

					Plots																									
			Avg	Avg	N00107		N00110		N00112		N00114		N00117		N00118		N00125		N00127		N00129		N00130		N00134		N00136		N00138	
			% P	MC	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg
LAYER	N	SPECIES																												
1	1	POPUTRE	0104	48.0	39		40		30		30		35		35		25		35		35		35		21		20		35	
	2	POPUBAL	22.2	01.2	01																				04					
	3	PICEGLA	09.3	00.4																										
	4	BETUPAP	05.6	00.2																										
2	5	POPUTRE	42.6	00.7	00				01				00				01						00		03		02			
	6	POPUBAL	13.0	00.1	00				00																					
	7	PICEGLA	03.7	00.1																										
4	8	SALISPP	11.1	00.7																										
	9	SALIDIS	05.6	00.4																										
	10	CORYCOR	03.7	00.0																										
	11	ALNUCRI	01.9	00.1																										
	12	SALIBEB	01.9	00.0																										
5	13	ROSAACI	0104	14.1	06		05		07		05		03		06		07		02		05		06		03		01		05	
	14	RUBUIDA	94.4	05.5	03		04		04		03		04				07		05		05		01		06		06		02	
	15	SYMPOCC	88.9	03.7	04		03		01		00		01		00		00				00		01		00		00		01	
	16	AMELALN	48.1	01.3	01				01										00		02		02							
	17	VIBUEDU	44.4	00.5			00		01								01		02		01		00		00				01	
	18	SHEPCAN	37.0	00.8			00		00						03				00				00		00					
	19	LONIDIO	35.2	00.3	00								00				00				00		00							
	20	LONIINV	20.4	00.4					00				00																00	
	21	RIBEOXY	14.8	00.2			00																				01		00	
	22	CORNSTO	13.0	00.4																									00	
	23	VACCCAE	13.0	00.3																										
	24	SALISPP	09.3	00.5			00																							
	25	PRUNVIR	09.3	00.2																										
	26	RIBELAC	09.3	00.1																										
	27	CORNCAN	07.4	01.5																										
	28	LINNBOR	07.4	00.2																										
	29	RUBUPUB	07.4	00.1																										
	30	CORYCOR	05.6	00.3	06												07						00							
	31	SALIBEB	05.6	00.3	00																									
	32	RIBETRI	05.6	00.1	00																									
	33	VIBUOPU	03.7	00.1																										
	34	LEDUGRO	03.7	00.0																										
	35	ALNUCRI	01.9	00.1																										
	36	SYMPALB	01.9	00.1																										
	37	RIBEHIR	01.9	00.1																										
	38	RIBEHUD	01.9	00.0																										
	39	SPIRBET	01.9	00.0																			00							
6	40	GALIBOR	0104	01.7	01		01		01		01		00		01		00		01		01		01		02		02		00	

(CONTINUED)

Group name: DMC3 Aw/Rose/Low forb

					Plots																									
			Avg	Avg	N00107		N00110		N00112		N00114		N00117		N00118		N00125		N00127		N00129		N00130		N00134		N00136		N00138	
			% P	MC	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg
LAYER	N	SPECIES																												
6	41	MAIACAN	0100	03.1	02		02		04		02		01		02		01		01		02		01		02		03		02	
	42	LATHOCH	98.1	04.3	02		03		04		02		01		02		03		04		03		02		05		05		03	
	43	FRAGVIR	92.6	03.5	03		06		05		06		05		02		02				04		01		02		02		01	
	44	ASTECIL	90.7	02.7	01		01		02		02		01		00		01								01		00		00	
	45	PYROASA	87.0	03.6	04		03		07		02		03		04		02		01		00				00		00		02	
	46	CORNCAN	81.5	04.8	03		06		07		02		05		08		02		03		04		02		05		02		05	
	47	RUBUPUB	75.9	02.8					04		00		01		02		01		02		00		02		02		01		03	
	48	VICIAME	72.2	01.0					00		00				00		01		01		00		00		02		01		00	
	49	MERTPAN	64.8	01.3	00		01		01												00				00		03		03	
	50	LINNBOR	61.1	04.5	01				01		01		05				00		02		02		03		00				03	
	51	TARAOFF	51.9	01.0			00		00		00														00				00	
	52	EQUIARV	50.0	00.8	00		01		00				00																00	
	53	PETAPAL	48.1	01.4	00		01		00		01		01		02															
	54	EPILANG	40.7	01.2					02				00				00		01		00		00		06		00			
	55	ARALNUD	35.2	01.1	00				00		00						04		01		04		03		03		05		04	
	56	ASTECON	35.2	00.3	00				00								01		02		00		00		00		00			
	57	ORTHSEC	33.3	00.3					00		00		00		00										00				01	
	58	VIOLCAN	22.2	00.5																	00				01				00	
	59	THALVEN	20.4	00.5													01													
	60	GALITRI	14.8	00.1			00														00		00						00	
	61	ACHIMIL	13.0	00.1							00																			
	62	DISPTRA	11.1	00.1															00		00		00							
	63	ACTARUB	09.3	00.1	00																									
	64	SMILSTE	09.3	00.1													00										00			
	65	APOCAND	07.4	00.2															05				01							
	66	MITENUD	07.4	00.0																										
	67	LILIPHI	07.4	00.0																										
	68	TRIFREP	05.6	00.3																										
	69	HERALAN	05.6	00.2																										
	70	SOLICAN	05.6	00.2																										
	71	DELPGLA	05.6	00.1																										
	72	SOLIMIS	05.6	00.0													00		00											
	73	ARCTUVA	03.7	00.1													00													
	74	PETAVIT	03.7	00.1																										
	75	ASTRCIC	03.7	00.0																										
	76	VACCCAE	03.7	00.0											01															
	77	HIERUMB	03.7	00.0																										
	78	FRAGVES	01.9	00.1																										
	79	ASTELAE	01.9	00.1																										
	80	MELIOFF	01.9	00.0																										

(CONTINUED)

RESOURCE INVENTORY, EDMONTON ALBERTA

Group name: DMC3 Aw/Rose/Low forb

					Plots																									
			Avg	Avg	N00107		N00110		N00112		N00114		N00117		N00118		N00125		N00127		N00129		N00130		N00134		N00136		N00138	
			% P	MC	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg
LAYER	N	SPECIES																												
6	81	ASTEMOD	01.9	00.0																										
	82	GEUMMAC	01.9	00.0																										
	83	PETASAG	01.9	00.0																										
	84	BOTRVIR	01.9	00.0																										
	85	CLINUNI	01.9	00.0																										
	86	SCUTGAL	01.9	00.0																										
	87	TRIFHYB	01.9	00.0							00																			
	88	ANEMCAN	01.9	00.0																										
	89	DRACPAR	01.9	00.0																										
	90	HABEVIR	01.9	00.0																										
	91	GENTAMA	01.9	00.0																										
	92	STELLON	01.9	00.0																										
	93	CAMPROT	01.9	00.0																										
7	94	CALACAN	79.6	02.3	00		01		00		05		01		01		01		02		01		00		01		01		07	
	95	ELYMINN	77.8	02.9	01		01		02		04		01		02				02		02		04		04		03		00	
	96	SCHIPUR	42.6	01.3	02				01								01													
	97	AGROTRA	31.5	02.4			01														01		00		01					
	98	ORYZASP	16.7	00.5																										
	99	BROMCIL	13.0	00.2																										
	100	POA PRA	11.1	00.1																										
	101	CAREPRA	09.3	00.3																										
	102	CARESPP	05.6	00.1																										
	103	ELYMCAN	01.9	00.0																										
	104	FESTSAX	01.9	00.0																										
	105	ORYZPUN	01.9	00.0																										
	106	CAREOBT	01.9	00.0																										
	107	POA PAL	01.9	00.0																										
8	108	MOSS	03.7	00.2																										

(CONTINUED)

Group name: DMC3 Aw/Rose/Low forb

			Plots																											
			N0081		N0082		N0085		N0088		N0089		N0097		N0098		N2516		N3134		N3235		N3511		N3613		S0356		S1641	
			Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg
LAYER	N	SPECIES																												
1	1	POPUTRE	15		25		35		30		35		40		35		25		35		30		30		25		35		40	
	2	POPUBAL															10				10									
	3	PICEGLA																												
	4	BETUPAP																												
2	5	POPUTRE	01		02		01				01				02		00		06		01		02				00		00	
	6	POPUBAL	00				00		00								00				01									
	7	PICEGLA																												
4	8	SALISPP																												
	9	SALIDIS																												
	10	CORYCOR																												
	11	ALNUCRI																												
	12	SALIBEB																												
5	13	ROSAACI	03		08		05		05		02		06		05		04		04		15		08		06		10		09	
	14	RUBUIDA	06		05		02		00		09		00		02		03		05		03		02		09		05		04	
	15	SYMPOCC	01		02				03		01		02		02		01		01		03				00		01		03	
	16	AMELALN	00		00						00				00				00										01	
	17	VIBUEDU	01		00		00				00		00								00				02					
	18	SHEPCAN	00				00		01																		03			
	19	LONIDIO	00		00				02						00															
	20	LONIINV																									00			
	21	RIBEOXY									00																			
	22	CORNSTO									01														01					
	23	VACCCAE																					06				01			
	24	SALISPP																												
	25	PRUNVIR																											00	
	26	RIBELAC																												
	27	CORNCAN																												
	28	LINNBOR																												
	29	RUBUPUB																												
	30	CORYCOR																												
	31	SALIBEB															05													
	32	RIBETRI																							01					
	33	VIBUOPU																												
	34	LEDUGRO																												
	35	ALNUCRI																							05					
	36	SYMPALB																												
	37	RIBEHIR																												
	38	RIBEHUD																												
	39	SPIRBET																												
6	40	GALIBOR	02		02		00		02		00		03		02		01		02		01		01		01		02		01	

(CONTINUED)

RESOURCE INVENTORY, EDMONTON ALBERTA

Group name: DMC3 Aw/Rose/Low forb

			Plots																											
			N0081		N0082		N0085		N0088		N0089		N0097		N0098		N2516		N3134		N3235		N3511		N3613		S0356		S1641	
			Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg
LAYER	N	SPECIES																												
6	41	MAIACAN	03		01		02		02		01		02		04		00		04		02		01		01		01		03	
	42	LATHOCH	05		05		05		07		04		05		05		04		05		05		07							
	43	FRAGVIR	03		01		02		04		00		01		01		04		02		07		01		02		05		03	
	44	ASTECIL	00		00		05		05		04		01		00		04		05		01		02				06		01	
	45	PYROASA	05		01				00		02						03		07				11		00		03		08	
	46	CORNCAN	04		03		02		08		01		08		04		16		03		02		07		02		04		16	
	47	RUBUPUB	02		02		03		00				05		01		01		00		04		03		05		02		07	
	48	VICIAME	00		02		01								01		00						05		03		00		01	
	49	MERTPAN			00		01				01		00		01		01		00						01				01	
	50	LINNBOR	02		01		04		10		31		16						19				17		10		11			
	51	TARAOFF					00		04				00		00		01		00		00						02			
	52	EQUIARV	00						01		00				00				00		01		01				01			
	53	PETAPAL			02		00		02		01		03				00										02		00	
	54	EPILANG	01																						01					
	55	ARALNUD	01				02																		09				04	
	56	ASTECON											00		00						00		00				00			
	57	ORTHSEC			00																						00			
	58	VIOLCAN													02										02				03	
	59	THALVEN																											00	
	60	GALITRI																												
	61	ACHIMIL																												
	62	DISPTRA																												
	63	ACTARUB																			00									
	64	SMILSTE							00		00																			
	65	APOCAND																											00	
	66	MITENUD																												
	67	LILIPHI																												
	68	TRIFREP																												
	69	HERALAN																			01									
	70	SOLICAN																												
	71	DELPGLA																												
	72	SOLIMIS																			00									
	73	ARCTUVA																												
	74	PETAVIT																												
	75	ASTRCIC																												
	76	VACCCAE																												
	77	HIERUMB																												
	78	FRAGVES																												
	79	ASTELAE																												
	80	MELIOFF																												

(CONTINUED)

Group name: DMC3 Aw/Rose/Low forb

			Plots																											
			N0081		N0082		N0085		N0088		N0089		N0097		N0098		N2516		N3134		N3235		N3511		N3613		S0356		S1641	
			Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg
LAYER	N	SPECIES																												
6	81	ASTEMOD																												
	82	GEUMMAC																												
	83	PETASAG																												
	84	BOTRVIR																												
	85	CLINUNI																												
	86	SCUTGAL																												
	87	TRIFHYB																												
	88	ANEMCAN																												
	89	DRACPAR																												
	90	HABEVIR																											00	
	91	GENTAMA																												
	92	STELLON																												
	93	CAMPROT																												
7	94	CALACAN	00		00		00		00				00		03		03				00				02				01	
	95	ELYMINN	02		01		02		01		00		03		00		01		02		00		03				02		00	
	96	SCHIPUR			00								02						02				00		00					
	97	AGROTRA							00																					
	98	ORYZASP	00																				01				03		00	
	99	BROMCIL			00																									
	100	POA PRA																									01		00	
	101	CAREPRA																												
	102	CARESPP																												
	103	ELYMCAN																												
	104	FESTSAX																												
	105	ORYZPUN																												
	106	CAREOBT																					00							
	107	POA PAL																												
8	108	MOSS																												

(CONTINUED)

Group name: DMC3 Aw/Rose/Low forb

			Plots																											
			S2148		S2350		S2765		S3163		N0092		S1339		GOOD08		WEBST11		EP02		EP06		WM07		L001		FM02		FM10	
			Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg
LAYER	N	SPECIES																												
1	1	POPUTRE	20		38		40		35		20		20		50		50		65		70		60		70		55		45	
	2	POPUBAL													02		04		05				10							
	3	PICEGLA									05						02								03					
	4	BETUPAP																					02							
2	5	POPUTRE	00		00		00		03				01																	
	6	POPUBAL																												
	7	PICEGLA																			02									
4	8	SALISPP											00						04		10									
	9	SALIDIS																												
	10	CORYCOR																												
	11	ALNUCRI																												
	12	SALIBEB																											00	
5	13	ROSAACI	13		28		09		04		03		13		34		46		31		47		29		08		53		35	
	14	RUBUIDA	04		04		04		02		01		00		14		02				16		10		01		13			
	15	SYMPOCC	03		02		03		02				04		18		02		36		05		02		01		14		02	
	16	AMELALN			00						01		03				02		09				04		06					
	17	VIBUEDU			02		00		04				01		02		02													
	18	SHEPCAN											03		16		06						00						00	
	19	LONIDIO	01												02		02				00									
	20	LONIINV					06		00						04		02													
	21	RIBEOXY													04		04													
	22	CORNSTO							01						08															
	23	VACCCAE	00										01				02						03							
	24	SALISPP													22		02													
	25	PRUNVIR																									00		02	
	26	RIBELAC																	02								01			
	27	CORNCAN													38		42													
	28	LINNBOR													08		02													
	29	RUBUPUB													06		02													
	30	CORYCOR																												
	31	SALIBEB																												
	32	RIBETRI																												
	33	VIBUOPU																									07			
	34	LEDUGRO															02													
	35	ALNUCRI																												
	36	SYMPALB																												
	37	RIBEHIR																												
	38	RIBEHUD																												
	39	SPIRBET																												
6	40	GALIBOR	01		01		01		00		01		02		02		02		01		01		01		02		01		02	

(CONTINUED)

Group name: DMC3 Aw/Rose/Low forb

			Plots																											
			S2148		S2350		S2765		S3163		N0092		S1339		GOOD08		WEBST11		EP02		EP06		WM07		L001		FM02		FM10	
			Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg
LAYER	N	SPECIES																												
6	41	MAIACAN	02		07		02		03		01		03		02		02		12		03		13		00		00		05	
	42	LATHOCH	06		06		05		00		08		02		08		06		02		08		05				02		14	
	43	FRAGVIR	05		02		02		02		07		07		04		12		04		04		03		04				06	
	44	ASTECIL	02		02		00		01		02		02		12		10		00		01		00				00		07	
	45	PYROASA	06		10		03		01		04		02		04		18		11		01		07		02					
	46	CORNCAN	08		05		06		05		09										00		03		08					
	47	RUBUPUB	05		05		04						03								01									
	48	VICIAME	00				00		00						02		02		00		04				00		00		09	
	49	MERTPAN			01				02				01		06		04				01						01			
	50	LINNBOR	18		13		05		10		17		02										06		00				00	
	51	TARAOFF			01								01				02		03		00				05		04		02	
	52	EQUIARV	01						00				00								01		01						00	
	53	PETAPAL	00		01				00												01		04							
	54	EPILANG							02		00										09		01							
	55	ARALNUD			02				02		01												01							
	56	ASTECON							02												04		00		01					
	57	ORTHSEC					00				00												03		00					
	58	VIOLCAN																	08						00					
	59	THALVEN																	04		04						04		04	
	60	GALITRI							00						02												01			
	61	ACHIMIL											03																01	
	62	DISPTRA																									01			
	63	ACTARUB																												
	64	SMILSTE																											05	
	65	APOCAND																											04	
	66	MITENUD					00										02													
	67	LILIPHI									00												00							
	68	TRIFREP																							16					
	69	HERALAN																									08			
	70	SOLICAN																			04								07	
	71	DELPGLA																												
	72	SOLIMIS																												
	73	ARCTUVA									04																			
	74	PETAVIT															04													
	75	ASTRCIC																												
	76	VACCCAE									00																			
	77	HIERUMB																											00	
	78	FRAGVES																												
	79	ASTELAE																												
	80	MELIOFF																											02	

(CONTINUED)

RESOURCE INVENTORY, EDMONTON ALBERTA

Group name: DMC3 Aw/Rose/Low forb

			Plots																									
			S2148		S2350		S2765		S3163		N0092		S1339		GOOD08		WEBST11		EP02		EP06		WM07		L001		FM02		FM10	
			Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg
LAYER	N	SPECIES																												
6	81	ASTEMOD	01																											
	82	GEUMMAC																												
	83	PETASAG																							01					
	84	BOTRVIR																												
	85	CLINUNI																												
	86	SCUTGAL																									00			
	87	TRIFHYB																												
	88	ANEMCAN																									00			
	89	DRACPAR																												
	90	HABEVIR																												
	91	GENTAMA																												
	92	STELLON																											00	
	93	CAMPROT																					00							
7	94	CALACAN			02				02						02		02				04		00				04		02	
	95	ELYMINN			01		00				02		04				12				03		14		05					
	96	SCHIPUR					00		01		01		22						01		10		06		00				09	
	97	AGROTRA																	00		00									
	98	ORYZASP									02												12							
	99	BROMCIL																	00				00						00	
	100	POA PRA																			00				04					
	101	CAREPRA																					05				04			
	102	CARESPP															02													
	103	ELYMCAN																											01	
	104	FESTSAX																											01	
	105	ORYZPUN									01																			
	106	CAREOBT																												
	107	POA PAL																												
8	108	MOSS																												

(CONTINUED)

Group name: DMC3 Aw/Rose/Low forb

			Plots																									
			FM18		FM23		FM26		FM34		FM43		BI01		BI06		SA04		HU01		HU02		PA01		PA07		GPKI05	
			Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg
LAYER	N	SPECIES																										
1	1	POPUTRE	50		70		65		70		75		70		65		85		80		55		85		70		45	
	2	POPUBAL									15												05					
	3	PICEGLA																							13			
	4	BETUPAP			02						05																	
2	5	POPUTRE																										
	6	POPUBAL																										
	7	PICEGLA					05																					
4	8	SALISPP			05		15				05																	
	9	SALIDIS															02		05		15							
	10	CORYCOR					00				00																	
	11	ALNUCRI			05																							
	12	SALIBEB																										
5	13	ROSAACI	04		17		22		04		29		19		09		40		15		55		03		07		19	
	14	RUBUIDA	03		03		02				11				12		05		20		15		17		00		11	
	15	SYMPOCC	10		05		05		04		07		00		03		15		05									
	16	AMELALN	05		00		11				03				00		03										09	
	17	VIBUEDU																									01	
	18	SHEPCAN	00		03								00															
	19	LONIDIO	00		00		00				02																	
	20	LONIINV			06																							
	21	RIBEOXY																										
	22	CORNSTO																									07	
	23	VACCCAE																										
	24	SALISPP																										
	25	PRUNVIR									02																02	
	26	RIBELAC	00												02												01	
	27	CORNCAN																										
	28	LINNBOR																										
	29	RUBUPUB																										
	30	CORYCOR																										
	31	SALIBEB																									08	
	32	RIBETRI			04																							
	33	VIBUOPU							00																			
	34	LEDUGRO																										
	35	ALNUCRI																										
	36	SYMPALB																									04	
	37	RIBEHIR																	03									
	38	RIBEHUD																									01	
	39	SPIRBET																										
6	40	GALIBOR	01		02		00		00		01		03		00		02		03		02		02		03		01	

(CONTINUED)

Group name: DMC3 Aw/Rose/Low forb

			Plots																									
			FM18		FM23		FM26		FM34		FM43		BI01		BI06		SA04		HU01		HU02		PA01		PA07		GPKI05	
			Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg
LAYER	N	SPECIES																										
6	41	MAIACAN	08		01		04		01		04		00		03						15		00		01		00	
	42	LATHOCH	03		04		07		03		06		03		04		04		02		08		01		01		02	
	43	FRAGVIR			01				05		03		05		00				08				04		08		02	
	44	ASTECIL	01		02				00		03		10		03				12		05		07		03		00	
	45	PYROASA	09		04		02		02		07		00				01				13		00		00		02	
	46	CORNCAN	08		13		06		00		12		22				03		03						00			
	47	RUBUPUB	01		03		03		00		05		05		03		05		10		30		02		02			
	48	VICIAME	00		01		00				01		01		00						02						00	
	49	MERTPAN			00		00				03		04		01		02		02		15		01		01			
	50	LINNBOR			01				08				03												09			
	51	TARAOFF	04		00				04										03		05						01	
	52	EQUIARV	00		02		00				00								15		05		05				00	
	53	PETAPAL			04		00				02		05						02		30				04			
	54	EPILANG			02		04				01		11		01		02		02						11			
	55	ARALNUD																									06	
	56	ASTECON													01												00	
	57	ORTHSEC	00				00		01		00										05		00					
	58	VIOLCAN	03								01														01		01	
	59	THALVEN					00								01		03						00				00	
	60	GALITRI																										
	61	ACHIMIL											01										00		00		00	
	62	DISPTRA			01		00																					
	63	ACTARUB															01		03						02			
	64	SMILSTE																										
	65	APOCAND																										
	66	MITENUD																							00			
	67	LILIPHI					00				00																	
	68	TRIFREP	00						00																			
	69	HERALAN																	03									
	70	SOLICAN																									00	
	71	DELPGLA													01		02		01									
	72	SOLIMIS																										
	73	ARCTUVA																										
	74	PETAVIT																										
	75	ASTRCIC			02						00																	
	76	VACCCAE																										
	77	HIERUMB											01															
	78	FRAGVES	05																									
	79	ASTELAE															03											
	80	MELIOFF																										

(CONTINUED)

Group name: DMC3 Aw/Rose/Low forb

			Plots																								
			FM18		FM23		FM26		FM34		FM43		BI01		BI06		SA04		HU01		HU02		PA01		PA07		GPKI05	
			Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg
LAYER	N	SPECIES																										
6	81	ASTEMOD																										
	82	GEUMMAC																	01									
	83	PETASAG																										
	84	BOTRVIR	00																									
	85	CLINUNI			00																							
	86	SCUTGAL																										
	87	TRIFHYB																										
	88	ANEMCAN																										
	89	DRACPAR																									00	
	90	HABEVIR																										
	91	GENTAMA											00															
	92	STELLON																										
	93	CAMPROT																										
7	94	CALACAN	03				01				06		07		04		05		20		04		04		11			
	95	ELYMINN			13		03		22		02		01				03				10						00	
	96	SCHIPUR	00		00		02				01										03						00	
	97	AGROTRA							01		00		00		22		10		40		30		05		13		01	
	98	ORYZASP	00				00				02																	
	99	BROMCIL			01								02						08									
	100	POA PRA											00														00	
	101	CAREPRA			01		02								00													
	102	CARESPP	02																									
	103	ELYMCAN																										
	104	FESTSAX																										
	105	ORYZPUN																										
	106	CAREOBT																										
	107	POA PAL																							00			
8	108	MOSS	00																10									

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RESOURCE INVENTORY, EDMONTON ALBERTA
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Group name: Aw/Rose-Hazelnut

---------------------------------------------------------------------------------------------
|                          |    |    |                       Plots                          |
|                          |    |    |------------------------------------------------------|
|                          |Avg |Avg |  FM05   |  FM42   | GPKI01  | GPKI04  | GPKI10  | GPKS01  |
|                          |----+----+---------+---------+---------+---------+---------+---------|
|                          |% P | MC | Cv | Vg | Cv | Vg | Cv | Vg | Cv | Vg | Cv | Vg | Cv | Vg |
|--------------------------+----+----+----+----+----+----+----+----+----+----+----+----+----+----|
|LAYER  N       SPECIES |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|1      1       POPUTRE |0100|51.7| 45 |    | 65 |    | 50 |    | 75 |    | 35 |    | 40 |    |
|       2       POPUBAL |16.7|02.5|    |    | 15 |    |    |    |    |    |    |    |    |    |
|       3       PICEGLA |16.7|00.3|    |    | 02 |    |    |    |    |    |    |    |    |    |
|2      4       POPUTRE |50.0|01.5|    |    |    |    | 03 |    | 03 |    | 01 |    |    |    |
|4      5       CORYCOR |33.3|07.8| 18 |    | 28 |    |    |    |    |    |    |    |    |    |
|       6       SALISPP |33.3|07.5| 10 |    | 35 |    |    |    |    |    |    |    |    |    |
|5      7       ROSAACI |0100|18.0| 24 |    | 22 |    | 25 |    | 16 |    | 10 |    | 09 |    |
|       8       AMELALN |0100|08.9| 01 |    | 03 |    | 05 |    | 12 |    | 12 |    | 18 |    |
|       9       PRUNVIR |0100|03.5| 02 |    | 01 |    | 07 |    | 05 |    | 04 |    | 00 |    |
|       10      CORYCOR |66.7|12.3|    |    |    |    | 15 |    | 20 |    | 12 |    | 25 |    |
|       11      RUBUIDA |66.7|05.0| 22 |    | 03 |    |    |    | 00 |    |    |    | 03 |    |
|       12      SYMPALB |50.0|03.7|    |    |    |    | 08 |    | 05 |    |    |    | 08 |    |
|       13      VIBUEDU |50.0|03.6|    |    | 03 |    |    |    |    |    | 16 |    | 00 |    |
|       14      SYMPOCC |50.0|03.1| 05 |    | 04 |    |    |    |    |    | 09 |    |    |    |
|       15      CORNSTO |50.0|01.2|    |    |    |    |    |    | 00 |    | 05 |    | 01 |    |
|       16      SHEPCAN |33.3|01.4|    |    | 05 |    |    |    |    |    |    |    | 02 |    |
|       17      RIBELAC |33.3|01.2| 06 |    |    |    | 00 |    |    |    |    |    |    |    |
|       18      LONIDIO |16.7|00.4| 02 |    |    |    |    |    |    |    |    |    |    |    |
|       19      RIBEHUD |16.7|00.4|    |    |    |    |    |    | 02 |    |    |    |    |    |
|       20      LONIINV |16.7|00.1|    |    | 00 |    |    |    |    |    |    |    |    |    |
|6      21      LATHOCH |0100|03.3| 05 |    | 03 |    | 00 |    | 01 |    | 07 |    | 01 |    |
|       22      MAIACAN |0100|02.5| 04 |    | 02 |    | 01 |    | 01 |    | 02 |    | 03 |    |
|       23      ASTECIL |0100|02.0| 01 |    | 01 |    | 05 |    | 00 |    | 01 |    | 00 |    |
|       24      GALIBOR |0100|01.8| 05 |    | 01 |    | 01 |    | 01 |    | 01 |    | 00 |    |
|       25      VIOLCAN |0100|01.2|    |    | 00 |    | 01 |    | 01 |    | 01 |    | 02 |    |
|       26      ARALNUD |83.3|07.9| 04 |    |    |    | 07 |    | 04 |    | 25 |    | 05 |    |
|       27      DISPTRA |83.3|02.4| 05 |    | 01 |    | 02 |    |    |    | 04 |    | 00 |    |
|       28      ASTECON |66.7|01.7| 07 |    | 01 |    |    |    | 01 |    | 00 |    |    |    |
|       29      RUBUPUB |66.7|01.5|    |    | 02 |    |    |    | 00 |    | 03 |    | 03 |    |
|       30      VICIAME |66.7|00.9| 02 |    | 01 |    | 01 |    | 00 |    |    |    |    |    |
|       31      APOCAND |66.7|00.8| 00 |    |    |    |    |    | 01 |    | 02 |    | 00 |    |
|       32      CORNCAN |33.3|03.5|    |    | 18 |    |    |    |    |    |    |    | 02 |    |
|       33      THALVEN |33.3|02.7| 16 |    |    |    |    |    | 00 |    |    |    |    |    |
|       34      PYROASA |33.3|02.5|    |    | 11 |    |    |    |    |    |    |    | 04 |    |
|       35      LINNBOR |33.3|00.7|    |    | 01 |    |    |    |    |    |    |    | 03 |    |
|       36      TARAOFF |33.3|00.3|    |    | 01 |    |    |    |    |    |    |    | 00 |    |
|       37      FRAGVIR |33.3|00.1|    |    |    |    |    |    | 00 |    |    |    | 00 |    |
|       38      EQUIARV |16.7|00.8| 04 |    |    |    |    |    |    |    |    |    |    |    |
|       39      HERALAN |16.7|00.7|    |    |    |    |    |    |    |    | 04 |    |    |    |
|       40      MERTPAN |16.7|00.5|    |    | 03 |    |    |    |    |    |    |    |    |    |
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RESOURCE INVENTORY, EDMONTON ALBERTA
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Group name: Aw/Rose-Hazelnut
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|                      |    |    |                       Plots                       |
|                      |    |    |---------------------------------------------------|
|                      |Avg |Avg |  FM05   |  FM42   | GPKI01  | GPKI04  | GPKI10  | GPKS01  |
|                      |----+----+---------+---------+---------+---------+---------+---------|
|                      |% P | MC | Cv | Vg | Cv | Vg | Cv | Vg | Cv | Vg | Cv | Vg | Cv | Vg |
|----------------------+----+----+----+----+----+----+----+----+----+----+----+----+----+----|
|LAYER  N      SPECIES |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|6      41     SOLICAN |16.7|00.3| 01 |    |    |    |    |    |    |    |    |    |    |    |
|       42     ACTARUB |16.7|00.2|    |    |    |    |    |    |    |    | 01 |    |    |    |
|       43     PETAPAL |16.7|00.1|    |    | 00 |    |    |    |    |    |    |    |    |    |
|       44     ACHIMIL |16.7|00.1|    |    |    |    |    |    | 00 |    |    |    |    |    |
|       45     VIVIAME |16.7|00.1|    |    |    |    |    |    |    |    | 00 |    |    |    |
|       46     ORTHSEC |16.7|00.1|    |    | 00 |    |    |    |    |    |    |    |    |    |
|       47     GALITRI |16.7|00.0|    |    |    |    |    |    |    |    |    |    | 00 |    |
|       48     LYCOUNI |16.7|00.0|    |    |    |    |    |    | 00 |    |    |    |    |    |
|       49     SMILSTE |16.7|00.0|    |    | 00 |    |    |    |    |    |    |    |    |    |
|7      50     CALACAN |50.0|00.9| 02 |    | 01 |    |    |    | 01 |    |    |    |    |    |
|       51     ELYMINN |33.3|00.6|    |    | 03 |    |    |    |    |    |    |    | 00 |    |
|       52     SCHIPUR |16.7|00.4|    |    | 02 |    |    |    |    |    |    |    |    |    |
|       53     ORYZASP |16.7|00.2|    |    |    |    |    |    |    |    |    |    | 01 |    |
|       54     AGROTRA |16.7|00.2|    |    | 01 |    |    |    |    |    |    |    |    |    |
|       55     CAREROI |16.7|00.1|    |    |    |    |    |    | 00 |    |    |    |    |    |
|       56     CAREPRA |16.7|00.1|    |    |    |    | 00 |    |    |    |    |    |    |    |
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RESOURCE INVENTORY, EDMONTON ALBERTA

Group name: DMC5 Aw/Buffaloberry-Rose

			Avg	Avg	Plots							
					BLUE12		FM17		FM32		ME01	
			% P	MC	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg
LAYER	N	SPECIES										
1	1	POPUTRE	0100	65.0	65		60		50		85	
	2	BETUPAP	25.0	00.3					01			
4	3	SALISPP	25.0	00.3					01			
5	4	SHEPCAN	0100	27.9	35		21		29		25	
	5	ROSAACI	0100	09.0	05		04		09		17	
	6	RUBUIDA	75.0	03.7	01		08		05			
	7	SYMPOCC	75.0	01.4	01		04		00			
	8	VIBUEDU	50.0	04.3	14						03	
	9	CORNCAN	25.0	01.3	05							
	10	LINNBOR	25.0	00.8	03							
	11	POPUTRE	25.0	00.8					03			
	12	ARCTUVA	25.0	00.7					02			
	13	LONIINV	25.0	00.5			02					
	14	AMELALN	25.0	00.5			01					
	15	RUBUPUB	25.0	00.3	01							
	16	SALISPP	25.0	00.3	01							
	17	VACCMYR	25.0	00.3					01			
	18	PRUNVIR	25.0	00.1			00					
	19	VIBUOPU	25.0	00.1			00					
6	20	LATHOCH	0100	10.4	04		18		09		08	
	21	PYROASA	0100	02.9	02		06		01		02	
	22	MAIACAN	0100	02.5	03		03		02		01	
	23	GALIBOR	0100	01.3	01		01		01		00	
	24	CORNCAN	75.0	09.6			21		04		12	
	25	LINNBOR	75.0	03.9			03		08		03	
	26	RUBUPUB	75.0	03.0			01		01		09	
	27	VICIAME	75.0	01.0	01		00		02			
	28	ORTHSEC	75.0	00.6	01		01		00			
	29	EPILANG	50.0	03.4	08						05	
	30	FRAGVES	50.0	02.6			03		06			
	31	EQUIARV	50.0	01.5			02		04			
	32	FRAGVIR	50.0	01.1	01						03	
	33	PETAPAL	50.0	00.3			00				01	
	34	ASTECIL	50.0	00.2					00		00	
	35	ARALNUD	25.0	01.6			06					
	36	ASTECON	25.0	00.5	02							
	37	TARAOFF	25.0	00.4			01					
	38	CAMPROT	25.0	00.3					01			
	39	ACHIMIL	25.0	00.2					00			
	40	MERTPAN	25.0	00.1							00	

(CONTINUED)

VEGETATION REPORT

RESOURCE INVENTORY, EDMONTON ALBERTA

Group name: DMC5 Aw/Buffaloberry-Rose

			Avg	Avg	Plots							
					BLUE12		FM17		FN32		ME01	
			% P	MC	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg
LAYER	N	SPECIES										
6	41	VIOLREN	25.0	00.1			00					
7	42	ELYMINN	0100	05.9	15		01		06		01	
	43	CALACAN	0100	02.7	01		07		01		01	
	44	AGROTRA	50.0	02.8					00		10	
	45	CARESPP	50.0	00.8			02		00			
	46	ORYZASP	25.0	00.9			03					
	47	POA PAL	25.0	00.1					00			
	48	SCHIPUR	25.0	00.0					00			
8	49	MOSSSPP	25.0	00.3							01	
	50	MOSS	25.0	00.1			00					

RESOURCE INVENTORY, EDMONTON ALBERTA

Group name: DMC6 Aw/Alder

					Plots			
			Avg	Avg	CRAZY04		D006	
			% P	MC	Cv	Vg	Cv	Vg
LAYER	N	SPECIES						
1	1	POPUTRE	0100	52.5	45		60	
	2	POPUBAL	0100	03.0	05		01	
	3	PICEGLA	50.0	01.0			02	
4	4	ALNUCRI	50.0	17.5			35	
	5	SALISPP	50.0	02.5			05	
5	6	ROSAACI	0100	08.5	05		12	
	7	VIBUEDU	0100	07.0	12		02	
	8	LONIINV	0100	01.0	01		01	
	9	ALNUCRI	50.0	41.0	82			
	10	PRUNPEN	50.0	10.5	21			
	11	SPIRBET	50.0	06.8			13	
	12	CORNCAN	50.0	05.0	10			
	13	RUBUPUB	50.0	01.5	03			
	14	SHEPCAN	50.0	01.3			02	
	15	RUBUIDA	50.0	00.5			01	
	16	SALISPP	50.0	00.5	01			
	17	SYMPOCC	50.0	00.3			00	
6	18	ARALNUD	0100	15.7	05		26	
	19	MAIACAN	0100	02.9	01		04	
	20	PYROASA	0100	02.5	02		03	
	21	FRAGVIR	0100	00.8	01		00	
	22	CORNCAN	50.0	15.0			30	
	23	APOCAND	50.0	04.9			09	
	24	LATHOCH	50.0	03.3			06	
	25	SMILRAC	50.0	02.5	05			
	26	GALIBOR	50.0	02.1			04	
	27	EPILANG	50.0	01.5	03			
	28	STREAMP	50.0	01.0	02			
	29	RUBUPUB	50.0	00.8			01	
	30	LINNBOR	50.0	00.6			01	
	31	VICIAME	50.0	00.6			01	
	32	MITENUD	50.0	00.5			01	
	33	ORTHSEC	50.0	00.5	01			
	34	PETAPAL	50.0	00.5			01	
	35	ASTECIL	50.0	00.3			00	
	36	MERTPAN	50.0	00.0			00	
	37	TARAOFF	50.0	00.0			00	
	38	VIOLCAN	50.0	00.0			00	
7	39	ORYZASP	50.0	12.3			24	
	40	BROMCIL	50.0	02.0			04	

(CONTINUED)

Group name: DMC6 Aw/Alder

			Avg	Avg	Plots			
					CRAZY04		D008	
			% P	MC	Cv	Vg	Cv	Vg
LAYER	N	SPECIES						
7	41	AGROTRA	50.0	01.0			02	
	42	CALACAN	50.0	00.0			00	

Group name: DMC7 Aw/Saskatoon-Rose

			Avg	Avg	Plots			
					GPKI07		SNIPE02	
			% P	MC	Cv	Vg	Cv	Vg
LAYER	N	SPECIES						
1	1	POPUTRE	0100	52.5	35		70	
	2	POPUBAL	50.0	02.5			05	
	3	BETUPAP	50.0	02.0			04	
	4	PICEGLA	50.0	00.5			01	
5	5	ROSAACI	0100	28.0	31		25	
	6	AMELALN	0100	17.9	20		15	
	7	RUBUIDA	0100	09.9	17		02	
	8	SYMPOCC	0100	06.8	12		01	
	9	VIBUEDU	50.0	10.0			20	
	10	PRUNVIR	50.0	05.8	11			
	11	RIBELAC	50.0	03.8	07			
	12	CORNCAN	50.0	03.5			07	
	13	CORYCOR	50.0	02.5	05			
	14	RUBUPUB	50.0	01.0			02	
	15	SALISPP	50.0	01.0			02	
	16	CORNSTO	50.0	00.5			01	
	17	LINNBOR	50.0	00.5			01	
	18	LONIDIO	50.0	00.5			01	
	19	LONIINV	50.0	00.5			01	
	20	RIBEOXY	50.0	00.5			01	
	21	SHEPCAN	50.0	00.5			01	
6	22	MAIACAN	0100	01.4	01		01	
	23	GALIBOR	0100	01.3	00		02	
	24	LATHOCH	0100	01.3	01		01	
	25	APOCAND	50.0	05.9	11			
	26	ARALNUD	50.0	02.5			05	
	27	VIOLCAN	50.0	02.0	04			
	28	ASTECIL	50.0	00.9	01			
	29	RUBUPUB	50.0	00.6	01			
	30	THALVEN	50.0	00.6	01			
	31	ASTECON	50.0	00.5			01	
	32	EPILANG	50.0	00.5			01	
	33	FRAGVIR	50.0	00.5			01	
	34	VIOLREN	50.0	00.5			01	
	35	VICIAME	50.0	00.4	00			
	36	GALITRI	50.0	00.3	00			
	37	SMILRAC	50.0	00.3	00			
	38	TARAOFF	50.0	00.1	00			
7	39	CALACAN	0100	02.5	03		02	
	40	AGROTRA	50.0	00.5			01	

(CONTINUED)

Group name: DMC7 Aw/Saskatoon-Rose

			Avg	Avg	Plots			
					GPKI07		SNIPE02	
			% P	MC	Cv	Vg	Cv	Vg
LAYER	N	SPECIES						
7	41	SCHIPUR	50.0	00.5			01	

Group name: DMC8 Pb/Red Osier dogwood-Rose

					Plots							
			Avg	Avg	GPKI12		N0073		N0074		N0075	
			% P	MC	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg
LAYER	N	SPECIES										
1	1	POPUBAL	0100	21.5	35		25		25		01	
	2	POPUTRE	50.0	08.8	10						25	
2	3	POPUTRE	25.0	00.6					02			
	4	POPUBAL	25.0	00.1							00	
	5	POPUTRR	25.0									
5	6	CORNSTO	0100	17.3	24		14		08		22	
	7	ROSAACI	0100	12.6	16		14		16		00	
	8	AMELALN	0100	01.7	02		01		01		01	
	9	VIBUEDU	75.0	01.9			04		02		00	
	10	LONIDIO	75.0	01.2			02		02		00	
	11	RUBUIDA	50.0	04.8	18				00			
	12	PRUNVIR	50.0	00.8	02				00			
	13	SYMPOCC	50.0	00.4			00		01			
	14	ALNUCRI	25.0	02.5	10							
	15	CORYCOR	25.0	00.3	01							
	16	RIBELAC	25.0	00.2							00	
6	17	EQUIARV	0100	02.7	01		01		03		05	
	18	ARALNUD	75.0	05.9			11		04		08	
	19	LATHOCH	75.0	02.1			01		04		02	
	20	VICIAME	75.0	01.3			02		01		01	
	21	THALVEN	75.0	00.7	01		00		01			
	22	SMILSTE	50.0	00.6			01		01			
	23	SOLICAN	25.0	00.9	03							
	24	FRAGVIR	25.0	00.8	03							
	25	CORNCAN	25.0	00.6	02							
	26	ASTECIL	25.0	00.4	01							
	27	TARAOFF	25.0	00.3	01							
	28	ACTARUB	25.0	00.1					00			
	29	GALITRI	25.0	00.1							00	
	30	PETAPAL	25.0	00.1			00					
	31	RUBUARC	25.0	00.1					00			
7	32	CALACAN	50.0	00.2	00		00					

RESOURCE INVENTORY, EDMONTON ALBERTA

Group name: DMC8a Aw/Willow

					Plots			
			Avg	Avg	N00116		N0095	
			% P	MC	Cv	Vg	Cv	Vg
LAYER	N	SPECIES						
1	1	POPUTRE	0100	35.0	50		20	
2	2	POPUTRE	50.0	03.3			06	
	3	POPUBAL	50.0	00.9			01	
5	4	SALISPP	0100	32.5	35		30	
	5	ROSAACI	0100	01.8	00		02	
	6	RUBUIDA	0100	01.6	01		01	
	7	SYMPOCC	0100	00.5	00		00	
	8	VIBUEDU	50.0	00.8			01	
	9	LONIINV	50.0	00.4	00			
6	10	FRAGVIR	0100	05.3	05		05	
	11	ASTECIL	0100	03.1	05		00	
	12	RUBUPUB	0100	03.0	04		01	
	13	TARAOFF	0100	02.9	01		04	
	14	LATHOCH	0100	01.7	00		03	
	15	CORNCAN	0100	01.0	00		01	
	16	PYROASA	0100	00.8	00		00	
	17	MERTPAN	0100	00.6	01		00	
	18	LINNBOR	50.0	03.8			07	
	19	STACPAL	50.0	01.9	03			
	20	GALIBOR	50.0	00.8	01			
	21	PETAPAL	50.0	00.8	01			
	22	MENTARV	50.0	00.6	01			
	23	MITENUD	50.0	00.5	01			
	24	SOLIMIS	50.0	00.5			01	
	25	GALITRI	50.0	00.4	00			
	26	MAIACAN	50.0	00.4	00			
	27	SMILSTE	50.0	00.4			00	
	28	TRIFHYB	50.0	00.4	00			
	29	EQUIARV	50.0	00.3	00			
	30	EPILANG	50.0	00.1			00	
	31	HERALAN	50.0	00.1	00			
	32	PETASAG	50.0	00.1	00			
	33	VIOLCAN	50.0	00.1	00			
7	34	CALACAN	0100	01.9	03		00	
	35	ELYMINN	0100	00.8	00		01	
	36	CARESPP	50.0	00.5			01	
	37	SCHIPUR	50.0	00.5	01			
	38	AGROTRA	50.0	00.1	00			

RESOURCE INVENTORY, EDMONTON ALBERTA

Group name: DMC9 Aw-Pb/Horsetail

			Avg	Avg	Plots			
					AD02		ENILD03	
			% P	MC	Cv	Vg	Cv	Vg
LAYER	N	SPECIES						
1	1	POPUTRE	50.0	42.5	85			
	2	POPUBAL	50.0	37.5			75	
5	3	LONIINV	0100	08.1	00		16	
	4	ROSAACI	0100	01.0	00		02	
	5	RUBUIDA	50.0	10.0			20	
	6	CORNSTO	50.0	04.0			08	
	7	RIBEOXY	50.0	01.0			02	
	8	RUBUPUB	50.0	00.5			01	
	9	SALISPP	50.0	00.5			01	
6	10	EQUIARV	0100	42.4	60		24	
	11	MERTPAN	0100	06.3	05		07	
	12	FRAGVIR	0100	01.6	02		01	
	13	EPILANG	0100	01.0	00		02	
	14	TARAOFF	0100	00.5	00		01	
	15	VICIAME	0100	00.5	00		01	
	16	CORNCAN	50.0	03.3	06			
	17	RUBUPUB	50.0	02.8	05			
	18	THALVEN	50.0	02.3	04			
	19	MITENUD	50.0	01.5	03			
	20	PETAPAL	50.0	01.0	02			
	21	CERAARV	50.0	01.0	02			
	22	ASTELAE	50.0	00.8	01			
	23	ASTECON	50.0	00.5			01	
	24	GALIBOR	50.0	00.5			01	
	25	GALITRI	50.0	00.5			01	
	26	GEUMMAC	50.0	00.1	00			
	27	LATHOCH	50.0	00.0	00			
	28	MAIACAN	50.0	00.0	00			
7	29	CALACAN	0100	04.3	03		05	
	30	AGROTRA	50.0	01.1	02			
	31	SCHIPUR	50.0	00.2	00			

Group name: Deciduous cutblocks

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|                    |    |    |                Plots                  |
|                    |    |    |---------------------------------------|
|                    |Avg |Avg | GPL003  | GPD008  | GPCB01  | GPCB02  |
|                    |----+----+---------+---------+---------+---------|
|                    |% P | MC | Cv | Vg | Cv | Vg | Cv | Vg | Cv | Vg |
|--------------------+----+----+----+----+----+----+----+----+----+----|
|LAYER    N  SPECIES |    |    |    |    |    |    |    |    |    |    |
|1        1  POPUTRE |25.0|00.8| 03 |    |    |    |    |    |    |    |
|         2  POPUBAL |25.0|00.3| 01 |    |    |    |    |    |    |    |
|4        3  CORYCOR |25.0|01.3|    |    | 05 |    |    |    |    |    |
|         4  SALISPP |25.0|00.5|    |    |    |    |    |    | 02 |    |
|5        5  ROSAACI |0100|18.8| 22 |    | 21 |    | 09 |    | 22 |    |
|         6  POPUTRE |0100|18.4| 08 |    | 28 |    | 19 |    | 18 |    |
|         7  AMELALN |0100|02.1| 04 |    | 03 |    | 00 |    | 00 |    |
|         8  SYMPOCC |75.0|03.4| 11 |    | 00 |    |    |    | 02 |    |
|         9  VIBUEDU |75.0|01.6| 04 |    |    |    | 01 |    | 01 |    |
|        10  SPIRBET |75.0|00.8|    |    | 01 |    | 01 |    | 00 |    |
|        11  RUBUIDA |50.0|05.0| 16 |    |    |    | 04 |    |    |    |
|        12  LONIINV |50.0|00.9|    |    |    |    | 01 |    | 02 |    |
|        13  VACCMYR |50.0|00.4| 01 |    | 00 |    |    |    |    |    |
|        14  RIBELAC |25.0|01.4| 05 |    |    |    |    |    |    |    |
|        15  CORNSTO |25.0|00.8| 03 |    |    |    |    |    |    |    |
|        16  VACCCAE |25.0|00.8|    |    | 03 |    |    |    |    |    |
|        17  POPUBAL |25.0|00.5| 02 |    |    |    |    |    |    |    |
|        18  SHEPCAN |25.0|00.1|    |    | 00 |    |    |    |    |    |
|6       19  FRAGVIR |0100|21.7| 08 |    | 16 |    | 24 |    | 38 |    |
|        20  GALIBOR |75.0|04.2| 14 |    | 01 |    |    |    | 00 |    |
|        21  EPILANG |75.0|04.0| 05 |    |    |    | 06 |    | 04 |    |
|        22  ASTECIL |75.0|03.9| 02 |    | 01 |    |    |    | 12 |    |
|        23  CORNCAN |75.0|01.2| 03 |    | 01 |    | 00 |    |    |    |
|        24  LATHOCH |75.0|00.7| 00 |    | 01 |    |    |    | 00 |    |
|        25  EQUISYL |50.0|03.6| 04 |    |    |    | 10 |    |    |    |
|        26  TARAOFF |50.0|02.4| 04 |    | 04 |    |    |    |    |    |
|        27  RUBUPUB |50.0|02.3| 08 |    |    |    |    |    | 01 |    |
|        28  ASTECON |50.0|02.3|    |    |    |    | 04 |    | 04 |    |
|        29  ARALNUD |50.0|01.6| 02 |    |    |    |    |    | 03 |    |
|        30  CREPTEC |50.0|00.9|    |    | 02 |    | 01 |    |    |    |
|        31  MITENUD |50.0|00.4| 01 |    |    |    | 00 |    |    |    |
|        32  MAIACAN |50.0|00.4|    |    | 01 |    | 00 |    |    |    |
|        33  EPILPAN |50.0|00.3|    |    |    |    | 00 |    | 00 |    |
|        34  LINNBOR |25.0|02.2| 08 |    |    |    |    |    |    |    |
|        35  EQUIARV |25.0|01.8|    |    |    |    |    |    | 07 |    |
|        36  PETAPAL |25.0|01.7|    |    |    |    | 06 |    |    |    |
|        37  MERTPAN |25.0|00.7| 02 |    |    |    |    |    |    |    |
|        38  GALITRI |25.0|00.6| 02 |    |    |    |    |    |    |    |
|        39  VICIAME |25.0|00.5|    |    |    |    |    |    | 02 |    |
|        40  ERIGGLA |25.0|00.5|    |    | 02 |    |    |    |    |    |
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RESOURCE INVENTORY, EDMONTON ALBERTA
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Group name: Deciduous cutblocks
-------------------------------------------------------------------------
|                         |    |    |              Plots                 |
|                         |    |    |------------------------------------|
|                         |Avg |Avg | GPL003  | GPD008  | GPCB01  | GPCB02  |
|                         |----+----+---------+---------+---------+---------|
|                         |% P | MC | Cv | Vg | Cv | Vg | Cv | Vg | Cv | Vg |
|-------------------------+----+----+----+----+----+----+----+----+----+----|
|LAYER  N      SPECIES |    |    |    |    |    |    |    |    |    |    |
|6      41     GEUMMAC |25.0|00.4| 01 |    |    |    |    |    |    |    |
|       42     TRIFREP |25.0|00.1|    |    | 00 |    |    |    |    |    |
|       43     VIOLCAN |25.0|00.1| 00 |    |    |    |    |    |    |    |
|       44     OSMOCHI |25.0|00.1| 00 |    |    |    |    |    |    |    |
|       45     STELLON |25.0|00.0| 00 |    |    |    |    |    |    |    |
|7      46     CALACAN |75.0|17.4| 45 |    |    |    | 15 |    | 08 |    |
|       47     AGROSCA |50.0|00.3|    |    | 00 |    | 00 |    |    |    |
|       48     CAREPRA |50.0|00.1|    |    |    |    | 00 |    | 00 |    |
|       49     ORYZPUN |25.0|02.4|    |    | 09 |    |    |    |    |    |
|       50     AGROREP |25.0|01.5| 06 |    |    |    |    |    |    |    |
|       51     ELYMINN |25.0|01.3|    |    |    |    |    |    | 05 |    |
|       52     JUNCBAL |25.0|00.8|    |    |    |    |    |    | 03 |    |
|       53     ORYZASP |25.0|00.5|    |    | 02 |    |    |    |    |    |
|       54     POA PAL |25.0|00.5| 02 |    |    |    |    |    |    |    |
|       55     CARESPP |25.0|00.2|    |    | 00 |    |    |    |    |    |
|       56     ELYMJUN |25.0|00.1| 00 |    |    |    |    |    |    |    |
|       57     AGROTRA |25.0|00.0|    |    |    |    |    |    | 00 |    |
|       58     BROMCIL |25.0|00.0|    |    |    |    |    |    | 00 |    |
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FOR DETAILED VEGETATIONS SPECIES LISTS FOR THE DECIDUOUS COMMUNITIES IN THE EASTERN ECODISTRICTS

(SEE DOWNING AND KARPUK 1992)

Group name: DMC16 Pb-Aw/Rose

			Avg	Avg	Plots											
					N0087		N00105		N2109		N0076		S0759		S3361	
			% P	MC	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg
LAYER	N	SPECIES														
1	1	POPUBAL	0100	23.2	15		30		35		25		24		10	
	2	POPUTRE	66.7	06.9	10						20		11		00	
	3	PICEGLA	16.7	00.0											00	
2	4	POPUBAL	33.3	01.0	04								01			
	5	POPUTRE	33.3	01.0	05								01			
4	6	SALIBEB	16.7	00.4											02	
5	7	ROSAACI	0100	05.0	01		04		06		05		10		02	
	8	RUBUIDA	83.3	07.4	29		00		04		05		05			
	9	SHEPCAN	50.0	02.2			00		01						11	
	10	SYMPOCC	50.0	01.3			00		00				06			
	11	LONIINV	33.3	01.3					06				01			
	12	VIBUEDU	33.3	00.7							02		01			
	13	RIBEOXY	33.3	00.4					02				00			
	14	AMELALN	33.3	00.4			01				01					
	15	CORNSTO	33.3	00.2							00		00			
	16	LONIDIO	33.3	00.1			00				00					
	17	ARCTUVA	16.7	00.3											01	
	18	LEDUGRO	16.7	00.2											01	
6	19	LATHOCH	0100	02.3	03		00		02		01		05		00	
	20	FRAGVIR	83.3	03.3	04		03		03				01		07	
	21	PYROASA	83.3	00.9	01		00		00				02		01	
	22	VICIAME	83.3	00.4	00				00		00		00		00	
	23	CORNCAN	66.7	03.0			02		07				06		01	
	24	EQUIARV	66.7	01.7	05				01		02		01			
	25	MAIACAN	66.7	01.2			00		02		01		02			
	26	PETAPAL	50.0	01.3					02				02		03	
	27	TARAOFF	50.0	01.3	01		05		01							
	28	ASTECIL	50.0	01.0			02						00		03	
	29	GALIBOR	50.0	00.6			00						02		01	
	30	RUBUPUB	50.0	00.2	00		00				00					
	31	MERTPAN	50.0	00.1	00				00				00			
	32	ARALNUD	33.3	06.4							37		00			
	33	ASTECON	33.3	00.3			00		01							
	34	ACTARUB	33.3	00.1							00		00			
	35	GALITRI	33.3	00.1	00						00					
	36	LINNBOR	16.7	01.4									08			
	37	GEOCLIV	16.7	00.7											04	
	38	SCUTGAL	16.7	00.3	01											
	39	ANTEPAR	16.7	00.2											01	
	40	EPILANG	16.7	00.2											01	

(CONTINUED)

Group name: DMC16 Pb-Aw/Rose

			Avg	Avg	Plots											
					N0087		N00105		N2109		N0076		S0759		S3361	
			% P	MC	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg
LAYER	N	SPECIES														
6	41	DESCRIC	16.7	00.1			00									
	42	LILIPHI	16.7	00.1											00	
	43	DISPTRA	16.7	00.1							00					
	44	URTIDIO	16.7	00.1			00									
	45	APOCAND	16.7	00.0							00					
	46	CAPSBUR	16.7	00.0			00									
	47	CERAARV	16.7	00.0			00									
	48	MITENUD	16.7	00.0									00			
7	49	ELYMINN	66.7	00.9			01		00				01		01	
	50	CALACAN	50.0	01.1			01		03				01			
	51	SCHIPUR	33.3	01.2			01								06	
	52	ORYZASP	33.3	00.3									00		01	
	53	GLYCGRA	16.7	01.4	08											
	54	AGROTRA	16.7	00.8	04											
	55	HORDJUB	16.7	00.2			01									
	56	BROMCIL	16.7	00.0	00											
	57	CAREATH	16.7	00.0	00											
	58	PHLEPRA	16.7	00.0			00									

(DMD)

DRY MIXEDWOOD SUBREGION

MIXEDWOOD AND CONIFER

COMMUNITY TYPES

VEGETATION SPECIES LIST

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RESOURCE INVENTORY, EDMONTON ALBERTA
----------------------------------------------------


Group name: Pj/Alder
-------------------------------------------------------
|                         |    |    |      Plots      |
|                         |    |    |-----------------|
|                         |Avg |Avg | GPFM21  | GPFM27 |
|                         |----+----+---------+--------|
|                         |% P | MC | Cv | Vg | Cv | Vg |
|-------------------------+----+----+----+----+----+----|
|LAYER  N       SPECIES   |    |    |    |    |    |    |
|1      1       PINUBAN   |0100|42.5| 50 |    | 35 |    |
|4      2       ALNUCRI   |0100|32.5| 35 |    | 30 |    |
|       3       SALISPP   |50.0|06.0| 12 |    |    |    |
|5      4       ROSAACI   |0100|09.0| 10 |    | 07 |    |
|       5       AMELALN   |0100|05.1| 01 |    | 08 |    |
|       6       VACCVIT   |0100|02.0| 02 |    | 01 |    |
|       7       VACCMYR   |0100|01.6| 00 |    | 02 |    |
|       8       ARCTUVA   |50.0|09.3| 18 |    |    |    |
|       9       SHEPCAN   |50.0|00.3| 00 |    |    |    |
|       10      RUBUIDA   |50.0|00.3|    |    | 00 |    |
|6      11      GALIBOR   |0100|02.2| 03 |    | 00 |    |
|       12      MAIACAN   |0100|02.2| 02 |    | 01 |    |
|       13      FRAGVIR   |0100|02.2| 02 |    | 01 |    |
|       14      ANEMMUL   |0100|01.4| 00 |    | 02 |    |
|       15      ACHIMIL   |0100|01.1| 00 |    | 01 |    |
|       16      LINNBOR   |50.0|06.0| 12 |    |    |    |
|       17      LATHOCH   |50.0|04.3| 08 |    |    |    |
|       18      ERIGCAE   |50.0|01.9|    |    | 03 |    |
|       19      EQUILAE   |50.0|01.3| 02 |    |    |    |
|       20      MELALIN   |50.0|01.0| 02 |    |    |    |
|       21      ORTHSEC   |50.0|01.0| 02 |    |    |    |
|       22      VICIAME   |50.0|00.8| 01 |    |    |    |
|       23      EPILANG   |50.0|00.7|    |    | 01 |    |
|       24      SOLIRIG   |50.0|00.3| 00 |    |    |    |
|       25      VIOLCAN   |50.0|00.3| 00 |    |    |    |
|       26      ARTECAM   |50.0|00.3|    |    | 00 |    |
|       27      PYROASA   |50.0|00.2| 00 |    |    |    |
|       28      ASTEMOD   |50.0|00.1|    |    | 00 |    |
|       29      CAMPROT   |50.0|00.1| 00 |    |    |    |
|       30      SOLISPA   |50.0|00.1|    |    | 00 |    |
|       31      VIOLADU   |50.0|00.1|    |    | 00 |    |
|       32      LILIPHI   |50.0|00.0| 00 |    |    |    |
|7      33      CAREOBT   |0100|06.0| 00 |    | 11 |    |
|       34      ORYZPUN   |0100|05.7| 00 |    | 10 |    |
|       35      ELYMINN   |0100|02.5| 04 |    | 00 |    |
|       36      SCHIPUR   |0100|00.3| 00 |    | 00 |    |
|       37      FESTSAX   |50.0|00.6|    |    | 01 |    |
|       38      BROMCIL   |50.0|00.0|    |    | 00 |    |
|8      39      MOSSSPP   |50.0|10.0| 20 |    |    |    |
|9      40      CLADRAN   |50.0|00.9|    |    | 01 |    |
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VEGETATION  REPORT                                                                                07:07 Tuesday, April 16, 1996  11
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RESOURCE INVENTORY, EDMONTON ALBERTA
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Group name: Pj/Alder
-----------------------------------------------------
|                    |    |    |       Plots       |
|                    |    |    |-------------------|
|                    |Avg |Avg | GPFM21  | GPFM27  |
|                    |----+----+---------+---------|
|                    |% P | MC | Cv | Vg | Cv | Vg |
|--------------------+----+----+----+----+----+----|
|LAYER  N    SPECIES |    |    |    |    |    |    |
|9      41   PELTAPH |50.0|00.3|    |    | 00 |    |
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VEGETATION  REPORT                                                                13:34 Thursday, October 10, 1996   1
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RESOURCE INVENTORY, EDMONTON ALBERTA
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Group name: Pj-Aw/Bearberry
-----------------------------------------------------------------------------
|                      |    |    |                  Plots                   |
|                      |    |    |------------------------------------------|
|                      |Avg |Avg | GPD007    | GPFM22    | GPEP07    | GPFM09    |
|                      |----+----+-----------+-----------+-----------+-----------|
|                      |% P | MC | Cv  | Vg  | Cv  | Vg  | Cv  | Vg  | Cv  | Vg  |
|----------------------+----+----+-----+-----+-----+-----+-----+-----+-----+-----|
|LAYER  N      SPECIES |    |    |     |     |     |     |     |     |     |     |
|1      1      PINUBAN |0100|38.8| 45  |     | 45  |     | 30  |     | 35  |     |
|       2      POPUTRE |0100|16.3| 15  |     | 10  |     | 20  |     | 20  |     |
|       3      BETUPAP |25.0|01.3| 05  |     |     |     |     |     |     |     |
|5      4      ARCTUVA |0100|25.7| 10  |     | 20  |     | 64  |     | 07  |     |
|       5      ROSAACI |0100|06.9| 08  |     | 04  |     | 08  |     | 06  |     |
|       6      AMELALN |0100|05.6| 01  |     | 15  |     | 04  |     | 01  |     |
|       7      VACCMYR |75.0|01.4|     |     | 01  |     | 02  |     | 02  |     |
|       8      VACCVIT |50.0|04.7|     |     | 14  |     |     |     | 04  |     |
|       9      SHEPCAN |50.0|00.1| 00  |     |     |     |     |     | 00  |     |
|       10     SPIRBET |25.0|02.4| 09  |     |     |     |     |     |     |     |
|       11     POPUTRE |25.0|00.8|     |     |     |     |     |     | 03  |     |
|       12     PICEGLA |25.0|00.3|     |     |     |     |     |     | 01  |     |
|       13     SYMPOCC |25.0|00.1| 00  |     |     |     |     |     |     |     |
|       14     LONIDIO |25.0|00.0|     |     |     |     |     |     | 00  |     |
|6      15     LATHOCH |0100|05.1| 05  |     | 07  |     | 03  |     | 03  |     |
|       16     MAIACAN |0100|03.3| 01  |     | 03  |     | 03  |     | 05  |     |
|       17     GALIBOR |0100|01.3| 03  |     | 00  |     | 01  |     | 00  |     |
|       18     FRAGVIR |75.0|01.2|     |     | 00  |     | 03  |     | 01  |     |
|       19     MELALIN |75.0|00.9|     |     | 02  |     | 01  |     | 00  |     |
|       20     VICIAME |75.0|00.8|     |     | 00  |     | 02  |     | 00  |     |
|       21     CORNCAN |75.0|00.7|     |     | 00  |     | 01  |     | 00  |     |
|       22     ANEMMUL |75.0|00.5|     |     | 01  |     | 00  |     | 00  |     |
|       23     LINNBOR |50.0|01.0| 00  |     |     |     |     |     | 04  |     |
|       24     TARAOFF |50.0|00.1| 00  |     |     |     |     |     | 00  |     |
|       25     ASTECIL |50.0|00.1|     |     |     |     | 00  |     | 00  |     |
|       26     EQUILAE |25.0|00.3|     |     |     |     | 01  |     |     |     |
|       27     SOLIMIS |25.0|00.3|     |     |     |     | 01  |     |     |     |
|       28     TRIFREP |25.0|00.1| 00  |     |     |     |     |     |     |     |
|       29     PYROASA |25.0|00.1|     |     |     |     |     |     | 00  |     |
|       30     VIOLCAN |25.0|00.1|     |     |     |     |     |     | 00  |     |
|       31     ACHIMIL |25.0|00.0|     |     | 00  |     |     |     |     |     |
|       32     SOLISPA |25.0|00.0|     |     | 00  |     |     |     |     |     |
|       33     VIOLADU |25.0|00.0|     |     |     |     | 00  |     |     |     |
|       34     APOCAND |25.0|00.0| 00  |     |     |     |     |     |     |     |
|7      35     ELYMINN |0100|06.4| 16  |     | 03  |     | 04  |     | 02  |     |
|       36     ORYZPUN |75.0|02.5|     |     | 00  |     | 09  |     | 00  |     |
|       37     ORYZASP |50.0|02.6|     |     |     |     | 04  |     | 06  |     |
|       38     AGROTRA |50.0|01.0|     |     |     |     | 03  |     | 00  |     |
|       39     SCHIPUR |50.0|00.3|     |     | 00  |     |     |     | 00  |     |
|       40     CAREPRE |25.0|02.0|     |     |     |     | 08  |     |     |     |
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(CONTINUED)
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Group name: Pj-Aw/Bearberry

-------------------------------------------------------------------------------------
|                       |     |     |                      Plots                      |
|                       |     |     |-----------------------------------------------|
|                       |Avg  |Avg  | GPD007    | GPFM22    | GPEP07    | GPFM09    |
|                       |-----+-----+-----------+-----------+-----------+-----------|
|                       |% P  | MC  | Cv  | Vg  | Cv  | Vg  | Cv  | Vg  | Cv  | Vg  |
|-----------------------+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----|
|LAYER   N      SPECIES |     |     |     |     |     |     |     |     |     |     |
|7       41     ELYMVIR |25.0 |00.3 | 01  |     |     |     |     |     |     |     |
|        42     CAREOBT |25.0 |00.1 | 00  |     |     |     |     |     |     |     |
|        43     CAREPRA |25.0 |00.0 |     |     | 00  |     |     |     |     |     |
|        44     POA PRA |25.0 |00.0 | 00  |     |     |     |     |     |     |     |
|8       45     MOSSSPP |25.0 |01.9 | 07  |     |     |     |     |     |     |     |
|9       46     CLADSPP |25.0 |00.1 |     |     | 00  |     |     |     |     |     |
|        47     PELTAPH |25.0 |00.1 |     |     | 00  |     |     |     |     |     |
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[redacted]ATIO[redacted]PORT [redacted] [redacted] [redacted] [redacted] [redacted] [redacted] [redacted] [redacted] [redacted] [redacted] [redacted] [redacted]8:37[redacted]day,[redacted]uary[redacted]000 [redacted] [redacted]

RESOURCE INVENTORY, EDMONTON ALBERTA

Group name: DMD2a Aw-Sw/Bearberry

			Avg	Avg	Plots	
					N00128	
			% P	MC	Cv	Vg
LAYER	N	SPECIES				
1	1	PICEGLA	0100	15.0	15	
	2	POPUTRE	0100	15.0	15	
2	3	PICEGLA	0100	00.3	00	
	4	POPUTRE	0100	00.3	00	
4	5	ARCTUVA	0100	25.0	25	
5	6	ARCTUVA	0100	12.0	12	
	7	LINNBOR	0100	07.0	07	
	8	VACCMEM	0100	02.3	02	
	9	ROSAACI	0100	02.0	02	
	10	AMELALN	0100	01.0	01	
6	11	LATHOCH	0100	03.8	03	
	12	MAIACAN	0100	03.5	03	
	13	FRAGVIR	0100	00.8	00	
	14	ASTECIL	0100	00.5	00	
	15	COMAUMB	0100	00.5	00	
	16	CORNCAN	0100	00.5	00	
	17	EQUIHYE	0100	00.5	00	
	18	MELALIN	0100	00.5	00	
	19	ORTHSEC	0100	00.3	00	
7	20	ELYMINN	0100	02.8	02	
	21	SCHIPUR	0100	01.8	01	
	22	ORYZPUN	0100	01.0	01	

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RESOURCE INVENTORY, EDMONTON ALBERTA
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Group name: Sw/Buffaloberry/Bearberry
-----------------------------------------------
|                            |    |    | Plots   |
|                            |    |    |---------|
|                            |Avg |Avg | GPFM33  |
|                            |----+----+---------|
|                            |% P | MC | Cv | Vg |
|----------------------------+----+----+----+----|
|LAYER  N      SPECIES |    |    |    |    |
|1      1      PICEGLA |0100|10.0| 10 |    |
|5      2      SHEPCAN |0100|47.9| 47 |    |
|       3      ARCTUVA |0100|19.3| 19 |    |
|       4      ROSAACI |0100|12.4| 12 |    |
|       5      VACCMYR |0100|07.1| 07 |    |
|       6      SYMPOCC |0100|05.3| 05 |    |
|       7      RUBUIDA |0100|00.1| 00 |    |
|6      8      LINNBOR |0100|12.0| 12 |    |
|       9      LATHOCH |0100|08.2| 08 |    |
|       10     MAIACAN |0100|06.1| 06 |    |
|       11     COMAUMB |0100|02.2| 02 |    |
|       12     SOLIMIS |0100|01.6| 01 |    |
|       13     FRAGVES |0100|01.3| 01 |    |
|       14     ORTHSEC |0100|01.1| 01 |    |
|       15     GALIBOR |0100|00.8| 00 |    |
|       16     ACHIMIL |0100|00.7| 00 |    |
|       17     VICIAME |0100|00.7| 00 |    |
|7      18     ORYZASP |0100|07.8| 07 |    |
|       19     ORYZPUN |0100|06.2| 06 |    |
|       20     CARESPP |0100|04.6| 04 |    |
|       21     ELYMINN |0100|01.9| 01 |    |
|       22     BROMCIL |0100|01.0| 01 |    |
|8      23     MOSSSPP |0100|03.5| 03 |    |
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VEGETATION  REPORT
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RESOURCE INVENTORY, EDMONTON ALBERTA
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Group name: Sw/Hazelnut/Moss
---------------------------------------------
|                     |    |    |  Plots   |
|                     |    |    |----------|
|                     |Avg |Avg | GPFM28   |
|                     |----+----+----------|
|                     |% P | MC | Cv | Vg  |
|---------------------+----+----+----+-----|
|LAYER  N     SPECIES |    |    |    |     |
|1      1     PICEGLA |0100|60.0| 60 |     |
|       2     BETUPAP |0100|05.0| 05 |     |
|       3     PINUBAN |0100|02.0| 02 |     |
|       4     POPUTRE |0100|02.0| 02 |     |
|4      5     CORYCOR |0100|12.0| 12 |     |
|5      6     VACCVIT |0100|06.1| 06 |     |
|       7     ROSAACI |0100|05.6| 05 |     |
|       8     ARCTUVA |0100|02.0| 02 |     |
|       9     AMELALN |0100|00.6| 00 |     |
|       10    SYMPOCC |0100|00.2| 00 |     |
|       11    SHEPCAN |0100|00.1| 00 |     |
|6      12    LINNBOR |0100|08.1| 08 |     |
|       13    GEOCLIV |0100|02.1| 02 |     |
|       14    FRAGVIR |0100|01.8| 01 |     |
|       15    MAIACAN |0100|01.7| 01 |     |
|       16    ARALNUD |0100|01.5| 01 |     |
|       17    LATHOCH |0100|01.4| 01 |     |
|       18    GALIBOR |0100|00.6| 00 |     |
|       19    ORTHSEC |0100|00.3| 00 |     |
|       20    CORNCAN |0100|00.2| 00 |     |
|       21    RUBUPUB |0100|00.2| 00 |     |
|       22    VIOLORB |0100|00.2| 00 |     |
|       23    MITENUD |0100|00.1| 00 |     |
|7      24    ELYMINN |0100|00.5| 00 |     |
|       25    CARECAP |0100|00.3| 00 |     |
|       26    SCHIPUR |0100|00.3| 00 |     |
|8      27    MOSSSPP |0100|80.0| 80 |     |
|       28    LYCOCOM |0100|00.3| 00 |     |
|9      29    CLADRAN |0100|01.0| 01 |     |
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RESOURCE INVENTORY, EDMONTON ALBERTA
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Group name: Aw-Sw/Rose/Marsh reedgrass
---------------------------------------------
|                         |    |    |  Plots  |
|                         |    |    |---------|
|                         |Avg |Avg | GPL004  |
|                         |----+----+---------|
|                         |% P | MC | Cv | Vg |
|-------------------------+----+----+----+----|
|LAYER  N      SPECIES |    |    |    |    |
|1      1      POPUTRE |0100|35.0| 35 |    |
|       2      PICEGLA |0100|30.0| 30 |    |
|5      3      ROSAACI |0100|23.0| 23 |    |
|       4      RUBUIDA |0100|15.2| 15 |    |
|       5      RIBELAC |0100|10.0| 10 |    |
|       6      VIBUEDU |0100|06.6| 06 |    |
|6      7      CORNCAN |0100|08.1| 08 |    |
|       8      MERTPAN |0100|07.3| 07 |    |
|       9      RUBUPUB |0100|05.4| 05 |    |
|       10     ARALNUD |0100|04.8| 04 |    |
|       11     EQUIARV |0100|03.5| 03 |    |
|       12     EPILANG |0100|03.0| 03 |    |
|       13     RUBUACA |0100|02.0| 02 |    |
|       14     VIOLRUG |0100|01.8| 01 |    |
|       15     GALIBOR |0100|00.7| 00 |    |
|       16     GALITRI |0100|00.7| 00 |    |
|       17     PYROASA |0100|00.6| 00 |    |
|       18     TARAOFF |0100|00.6| 00 |    |
|       19     DISPTRA |0100|00.5| 00 |    |
|       20     OSMOCHI |0100|00.4| 00 |    |
|       21     MITENUD |0100|00.3| 00 |    |
|       22     ORTHSEC |0100|00.2| 00 |    |
|7      23     CALACAN |0100|30.6| 30 |    |
|8      24     MOSS    |0100|18.5| 18 |    |
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RESOURCE INVENTORY, EDMONTON ALBERTA
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Group name: Aw-Pb-Sw/Willow/Wild sarsaparil
------------------------------------------------
|                        |    |    | Plots   |
|                        |    |    |---------|
|                        |Avg |Avg | GPD005  |
|                        |----+----+---------|
|                        |% P | MC | Cv | Vg |
|------------------------+----+----+----+----|
|LAYER  N      SPECIES   |    |    |    |    |
|1      1      POPUTRE   |0100|35.0| 35 |    |
|       2      POPUBAL   |0100|25.0| 25 |    |
|       3      PICEGLA   |0100|15.0| 15 |    |
|       4      BETUPAP   |0100|10.0| 10 |    |
|4      5      SALISPP   |0100|25.0| 25 |    |
|5      6      VIBEEDU   |0100|10.0| 10 |    |
|       7      ROSAACI   |0100|09.5| 09 |    |
|       8      SYMPOCC   |0100|03.0| 03 |    |
|       9      RUBUCHA   |0100|02.0| 02 |    |
|       10     PRUNPEN   |0100|01.5| 01 |    |
|       11     RIBEOXY   |0100|00.5| 00 |    |
|6      12     ARALNUD   |0100|13.0| 13 |    |
|       13     MITENUD   |0100|10.5| 10 |    |
|       14     VIOLCAN   |0100|10.5| 10 |    |
|       15     CORNCAN   |0100|06.6| 06 |    |
|       16     ATHYFEL   |0100|04.5| 04 |    |
|       17     RUBUPUB   |0100|04.0| 04 |    |
|       18     ASTECON   |0100|03.0| 03 |    |
|       19     LINNBOR   |0100|02.5| 02 |    |
|       20     PETAPAL   |0100|01.9| 01 |    |
|       21     GALITRI   |0100|00.5| 00 |    |
|       22     MAIACAN   |0100|00.5| 00 |    |
|       23     DISPTRA   |0100|00.4| 00 |    |
|       24     MERTPAN   |0100|00.4| 00 |    |
|       25     PYROASA   |0100|00.2| 00 |    |
|7      26     AGROTRA   |0100|00.5| 00 |    |
|       27     BROMCIL   |0100|00.1| 00 |    |
|       28     ORYZASP   |0100|00.1| 00 |    |
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VEGETATION  REPORT                                                        07:07 Tuesday, April 16, 1996  20
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RESOURCE INVENTORY, EDMONTON ALBERTA
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Group name: Sw-Pb-Aw/Rose/Twinflower
------------------------------------------------
|                     |    |    | Plots   |
|                     |    |    |---------|
|                     |Avg |Avg | GPD002  |
|                     |----+----+---------|
|                     |% P | MC | Cv | Vg |
|---------------------+----+----+----+----|
|LAYER  N    SPECIES  |    |    |    |    |
|1      1    PICEGLA  |0100|35.0| 35 |    |
|       2    POPUBAL  |0100|30.0| 30 |    |
|       3    POPUTRE  |0100|20.0| 20 |    |
|       4    BETUPAP  |0100|03.0| 03 |    |
|5      5    ROSAACI  |0100|18.0| 18 |    |
|       6    SYMPOCC  |0100|12.5| 12 |    |
|       7    LONIINV  |0100|05.0| 05 |    |
|       8    SHEPCAN  |0100|01.0| 01 |    |
|       9    RIBESPP  |0100|00.5| 00 |    |
|       10   RIBELAC  |0100|00.2| 00 |    |
|       11   VIBUEDU  |0100|00.1| 00 |    |
|6      12   LINNBOR  |0100|21.5| 21 |    |
|       13   CORNCAN  |0100|08.0| 08 |    |
|       14   PYROASA  |0100|05.9| 05 |    |
|       15   RUBUPUB  |0100|05.5| 05 |    |
|       16   MITENUD  |0100|03.2| 03 |    |
|       17   LATHOCH  |0100|03.0| 03 |    |
|       18   GALIBOR  |0100|02.2| 02 |    |
|       19   MAIACAN  |0100|00.8| 00 |    |
|       20   FRAGVIR  |0100|00.7| 00 |    |
|       21   EQUIARV  |0100|00.5| 00 |    |
|       22   PETAPAL  |0100|00.5| 00 |    |
|       23   TARAOFF  |0100|00.4| 00 |    |
|       24   TRIFREP  |0100|00.2| 00 |    |
|       25   ASTECIL  |0100|00.1| 00 |    |
|7      26   AGROTRA  |0100|00.1| 00 |    |
|       27   CALACAN  |0100|00.1| 00 |    |
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RESOURCE INVENTORY, EDMONTON ALBERTA
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Group name: Sb/Willow/Moss

---------------------------------------------------------
|                         |     |     |       Plots       |
|                         |     |     |-------------------|
|                         |Avg  |Avg  | PRAD05  | PRPA06  |
|                         |----+-----+---------+---------|
|                         |% P | MC  | Cv | Vg | Cv | Vg |
|-------------------------+----+-----+----+----+----+----|
|LAYER   N       SPECIES  |    |     |    |    |    |    |
|1       1       PICEMAR  |0100|15.0| 15 |    | 15 |    |
|4       2       SALISPP  |0100|17.5| 15 |    | 20 |    |
|        3       SALIBEB  |50.0|17.5| 35 |    |    |    |
|        4       ALNUCRI  |50.0|05.0|    |    | 10 |    |
|5       5       BETUGLA  |0100|16.5| 25 |    | 08 |    |
|        6       SHEPCAN  |50.0|01.0|    |    | 02 |    |
|        7       ARCTUVA  |50.0|00.5| 01 |    |    |    |
|        8       RIBETRI  |50.0|00.5|    |    | 01 |    |
|6       9       EQUIARV  |0100|17.5| 15 |    | 20 |    |
|        10      MITENUD  |0100|05.5| 10 |    | 01 |    |
|        11      RUBUARC  |0100|03.5| 02 |    | 05 |    |
|        12      ASTECIL  |0100|02.5| 02 |    | 03 |    |
|        13      FRAGVIR  |0100|02.5| 03 |    | 02 |    |
|        14      MERTPAN  |0100|01.5| 02 |    | 01 |    |
|        15      PARNPAL  |0100|01.0| 01 |    | 01 |    |
|        16      VICIAME  |0100|01.0| 01 |    | 01 |    |
|        17      LINNBOR  |50.0|10.0|    |    | 20 |    |
|        18      EPILANG  |50.0|02.0|    |    | 04 |    |
|        19      PETASAG  |50.0|01.5| 03 |    |    |    |
|        20      CORNCAN  |50.0|01.0|    |    | 02 |    |
|        21      PETAPAL  |50.0|01.0|    |    | 02 |    |
|        22      SOLICAN  |50.0|01.0| 02 |    |    |    |
|        23      ACHIMIL  |50.0|00.5| 01 |    |    |    |
|        24      PEDIGRO  |50.0|00.5| 01 |    |    |    |
|7       25      CALACAN  |0100|10.0| 10 |    | 10 |    |
|        26      CARECAP  |0100|07.5| 05 |    | 10 |    |
|        27      CAREAQU  |50.0|01.0| 02 |    |    |    |
|8       28      MOSSSPP  |0100|99.0| 99 |    | 99 |    |
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Group name: DMD9 Sb-Lt/Labrador tea/Moss

			Avg	Avg	Plots					
					GPFM20		PRBI03		S02845	
			% P	MC	Cv	Vg	Cv	Vg	Cv	Vg
LAYER	N	SPECIES								
1	1	PICEMAR	0100	30.0	10		60		20	
	2	LARILAR	66.7	10.0	15		15			
	3	BETUPAP	33.3	01.7	05					
2	4	LARILAR	33.3	00.1					00	
	5	PICEMAR	33.3	00.1					00	
4	6	SALISPP	0100	16.5	06		08		35	
	7	BETUGLA	33.3	11.7					35	
	8	SALIDIS	33.3	04.0	12					
5	9	LEDUGRO	0100	22.6	10		35		22	
	10	BETUPUM	33.3	11.0	33					
	11	BETUGLA	33.3	01.5					04	
	12	ARCTUVA	33.3	01.2					03	
	13	RUBUCHA	33.3	00.9					02	
	14	VACCVIT	33.3	00.8	02					
	15	RUBUARC	33.3	00.4					01	
	16	RIBETRI	33.3	00.3			01			
	17	SHEPCAN	33.3	00.3			01			
	18	SALIPET	33.3	00.1					00	
6	19	RUBUPED	66.7	08.4	00		25			
	20	MITENUD	66.7	00.8			02		00	
	21	MAIACAN	66.7	00.1	00				00	
	22	EQUIARV	33.3	15.0			45			
	23	EQUISCI	33.3	08.3			25			
	24	LINNBOR	33.3	01.7			05			
	25	RUBUARC	33.3	00.9	02					
	26	PETASAG	33.3	00.7	02					
	27	PETAVIT	33.3	00.7					02	
	28	EQUIFLU	33.3	00.4	01					
	29	PYROASA	33.3	00.4	01					
	30	EPILGLA	33.3	00.3			01			
	31	HABEVIR	33.3	00.3			01			
	32	PARNPAL	33.3	00.3			01			
	33	CORNCAN	33.3	00.2	00					
	34	EPILANG	33.3	00.2	00					
	35	MONEUNI	33.3	00.2	00					
	36	POTEPAL	33.3	00.1					00	
	37	RUMEACE	33.3	00.1					00	
7	38	CALACAN	0100	02.7	04		02		01	
	39	CAREROS	66.7	04.0			07		05	
	40	EQUIARV	33.3	05.6					16	

(CONTINUED)

Group name: DMD9 Sb-Lt/Labrador tea/Moss

			Avg	Avg	Plots					
					GPFM20		PRBI03		S02845	
			% P	MC	Cv	Vg	Cv	Vg	Cv	Vg
LAYER	N	SPECIES								
7	41	CAREAUR	33.3	05.0			15			
	42	CARECAP	33.3	01.6	05					
	43	CAREATH	33.3	01.6					05	
	44	CAREAQU	33.3	01.5	04					
	45	CAREMIC	33.3	01.2					03	
	46	POA PAL	33.3	00.7			02			
	47	JUNCBAL	33.3	00.6					01	
	48	CAREGYN	33.3	00.5					01	
	49	GLYCGRA	33.3	00.3					00	
	50	CARESPP	33.3	00.1	00					
8	51	MOSSSPP	66.7	51.7	60		95			
9	52	PELTAPH	33.3	00.5	01					

(CMA)

CENTRAL MIXEDWOOD SUBREGION

NATIVE GRASS AND SHRUBLAND

COMMUNITY TYPES

VEGETATION SPECIES LIST

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RESOURCE INVENTORY, EDMONTON ALBERTA
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Group name: Sedge meadows
-------------------------------------------------------------------------------------
|                        |    |    |                      Plots                       |
|                        |    |    |--------------------------------------------------|
|                        |Avg |Avg | SLR004  | SLH003  | SLHE08  | NBRY05  | SCH004  |
|                        |----+----+---------+---------+---------+---------+---------|
|                        |% P | MC | Cv | Vg | Cv | Vg | Cv | Vg | Cv | Vg | Cv | Vg |
|------------------------+----+----+----+----+----+----+----+----+----+----+----+----|
|LAYER  N      SPECIES   |    |    |    |    |    |    |    |    |    |    |    |    |
|5      1      BETUPAP   |20.0|00.0| 00 |    |    |    |    |    |    |    |    |    |
|6      2      SIUMBUA   |40.0|00.1| 00 |    | 00 |    |    |    |    |    |    |    |
|       3      SCUTGAL   |20.0|05.0| 25 |    |    |    |    |    |    |    |    |    |
|       4      BIDECER   |20.0|02.6|    |    |    |    |    |    | 13 |    |    |    |
|       5      POLYSPP   |20.0|02.0|    |    |    |    |    |    |    |    | 10 |    |
|       6      TARAOFF   |20.0|00.7| 03 |    |    |    |    |    |    |    |    |    |
|       7      GALITRI   |20.0|00.5|    |    |    |    |    |    | 02 |    |    |    |
|       8      GEUMMAC   |20.0|00.5| 02 |    |    |    |    |    |    |    |    |    |
|       9      EPILCIL   |20.0|00.2| 01 |    |    |    |    |    |    |    |    |    |
|       10     STELLON   |20.0|00.1| 00 |    |    |    |    |    |    |    |    |    |
|       11     TRIFREP   |20.0|00.1| 00 |    |    |    |    |    |    |    |    |    |
|       12     POLYVIV   |20.0|00.1|    |    |    |    | 00 |    |    |    |    |    |
|       13     RUMEACE   |20.0|00.1| 00 |    |    |    |    |    |    |    |    |    |
|       14     PLANMAJ   |20.0|00.1| 00 |    |    |    |    |    |    |    |    |    |
|       15     FRAGVIR   |20.0|00.1| 00 |    |    |    |    |    |    |    |    |    |
|       16     CIRSARV   |20.0|00.0| 00 |    |    |    |    |    |    |    |    |    |
|       17     EQUIARV   |20.0|00.0| 00 |    |    |    |    |    |    |    |    |    |
|       18     GEUMALE   |20.0|00.0|    |    |    |    | 00 |    |    |    |    |    |
|7      19     CAREROS   |0100|48.3| 28 |    | 73 |    | 63 |    | 08 |    | 68 |    |
|       20     CAREAQU   |80.0|02.8|    |    | 01 |    | 07 |    | 00 |    | 04 |    |
|       21     CALACAN   |60.0|08.3|    |    | 10 |    | 13 |    |    |    | 18 |    |
|       22     CAREATH   |40.0|13.4|    |    |    |    |    |    | 57 |    | 10 |    |
|       23     GLYCGRA   |40.0|03.2| 10 |    | 05 |    |    |    |    |    |    |    |
|       24     SCIRMIC   |40.0|02.5|    |    | 06 |    |    |    |    |    | 06 |    |
|       25     ALOPAEQ   |20.0|04.5| 22 |    |    |    |    |    |    |    |    |    |
|       26     CARESPP   |20.0|00.9|    |    |    |    | 04 |    |    |    |    |    |
|       27     AGROSCA   |20.0|00.3| 01 |    |    |    |    |    |    |    |    |    |
|       28     POA PRA   |20.0|00.2| 01 |    |    |    |    |    |    |    |    |    |
|       29     DESCCES   |20.0|00.2|    |    |    |    | 01 |    |    |    |    |    |
|       30     BECKSYZ   |20.0|00.1| 00 |    |    |    |    |    |    |    |    |    |
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RESOURCE INVENTORY, EDMONTON ALBERTA

Group name: Marsh reedgrass meadow

			Avg	Avg	Plots											
					SCHO02		LLBPA07		NBRY04		NBRY10		NBRY11		GPGE01	
			% P	MC	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg
LAYER	N	SPECIES														
2	1	BETUPAP	16.7	02.3											14	
4	2	SALISPP	33.3	00.5			02		00							
5	3	ALNUCRI	16.7	01.0											06	
	4	CORNSTO	16.7	00.7											04	
	5	SALIPRO	16.7	00.4											02	
	6	ROSAACI	16.7	00.3											01	
6	7	RUMEACE	33.3	00.1			00						00			
	8	EPILANG	16.7	00.4							02					
	9	BIDECER	16.7	00.3							01					
	10	POTENOR	16.7	00.2									01			
	11	VICIAME	16.7	00.2											01	
	12	EQUIARV	16.7	00.1											00	
	13	SCUTGAL	16.7	00.1							00					
	14	GALITRI	16.7	00.1			00									
	15	GEUMMAC	16.7	00.1									00			
	16	ASTECIL	16.7	00.0											00	
7	17	CALACAN	0100	55.8	54		34		53		45		83		64	
	18	CAREATH	66.7	10.8			33		18		02		11			
	19	CAREAQU	33.3	03.7			08								14	
	20	POA PAL	33.3	00.2					00				00			
	21	CAREROS	16.7	04.7	28											
	22	GLYCGRA	16.7	00.2									01			
	23	POA PRA	16.7	00.0									00			

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VEGETATION  REPORT          GROUP NAME :COW PARSNIP/KENTUCKY BLUEGRASS-REEDGRASS                              GROUP : 10
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                                                                                          RESOURCE INVENTORY, EDMONTON ALBERTA
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| Plot Number     |  Average   |SLH001  |                                                                                    |
--------------------------------------------------------------------------------------------------------------------------------
| Layer           |    Value   |        |         |         |         |         |         |         |         |         |         |         |
|         Species | % P    MC  | Cv  Vg | Cv   Vg | Cv   Vg | Cv   Vg | Cv   Vg | Cv   Vg | Cv   Vg | Cv   Vg | Cv   Vg | Cv   Vg | Cv   Vg |
--------------------------------------------------------------------------------------------------------------------------------
|                 |            |        |         |         |         |         |         |         |         |         |         |         |
|4      alnucri   |0100   00.5 | 01   . |         |         |         |         |         |         |         |         |         |         |
|5      rosaaci   |0100   07.8 | 08   . |         |         |         |         |         |         |         |         |         |         |
|       rubuida   |0100   01.0 | 01   . |         |         |         |         |         |         |         |         |         |         |
|6      heralan   |0100   42.4 | 42   . |         |         |         |         |         |         |         |         |         |         |
|       equiarv   |0100   33.0 | 33   . |         |         |         |         |         |         |         |         |         |         |
|       taraoff   |0100   27.0 | 27   . |         |         |         |         |         |         |         |         |         |         |
|       epilang   |0100   19.3 | 19   . |         |         |         |         |         |         |         |         |         |         |
|       lathoch   |0100   08.0 | 08   . |         |         |         |         |         |         |         |         |         |         |
|       thalven   |0100   08.0 | 08   . |         |         |         |         |         |         |         |         |         |         |
|       viciame   |0100   04.9 | 05   . |         |         |         |         |         |         |         |         |         |         |
|       astecil   |0100   02.5 | 03   . |         |         |         |         |         |         |         |         |         |         |
|       fragvir   |0100   01.5 | 02   . |         |         |         |         |         |         |         |         |         |         |
|       equisyl   |0100   00.8 | 01   . |         |         |         |         |         |         |         |         |         |         |
|       achimil   |0100   00.6 | 01   . |         |         |         |         |         |         |         |         |         |         |
|       delpgla   |0100   00.5 | 01   . |         |         |         |         |         |         |         |         |         |         |
|       galibor   |0100   00.5 | 01   . |         |         |         |         |         |         |         |         |         |         |
|       medisat   |0100   00.5 | 01   . |         |         |         |         |         |         |         |         |         |         |
|       mertpan   |0100   00.3 | 00   . |         |         |         |         |         |         |         |         |         |         |
|7      poa pra   |0100   14.5 | 15   . |         |         |         |         |         |         |         |         |         |         |
|       calacan   |0100   09.5 | 10   . |         |         |         |         |         |         |         |         |         |         |
|       bromcil   |0100   01.6 | 02   . |         |         |         |         |         |         |         |         |         |         |
|       agrotra   |0100   01.5 | 02   . |         |         |         |         |         |         |         |         |         |         |
|       phlepra   |0100   00.1 | 00   . |         |         |         |         |         |         |         |         |         |         |
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VEGETATION  REPORT                                                         14:53 Monday, April 22, 1996  11
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RESOURCE INVENTORY, EDMONTON ALBERTA
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Group name: Snowberry/Kentucky bluegrass
--------------------------------------------------------------------------
|                      |    |    |              Plots                    |
|                      |    |    |---------------------------------------|
|                      |Avg |Avg | SLR003  | SLR001  | SLH006  | SLON01  |
|                      |----+----+---------+---------+---------+---------|
|                      |% P | MC | Cv | Vg | Cv | Vg | Cv | Vg | Cv | Vg |
|----------------------+----+----+----+----+----+----+----+----+----+----|
|LAYER   N     SPECIES |    |    |    |    |    |    |    |    |    |    |
|4       1     SALISPP |75.0|04.5| 05 |    | 05 |    |    |    | 08 |    |
|        2     POPUTRE |25.0|01.3|    |    | 05 |    |    |    |    |    |
|5       3     SYMPOCC |0100|19.1| 30 |    | 20 |    | 25 |    | 01 |    |
|        4     RUBUIDA |0100|08.5| 10 |    | 04 |    | 16 |    | 03 |    |
|        5     ROSAACI |50.0|02.6|    |    | 00 |    |    |    | 09 |    |
|        6     RIBELAC |25.0|00.3|    |    |    |    |    |    | 01 |    |
|        7     AMELALN |25.0|00.3|    |    | 01 |    |    |    |    |    |
|6       8     TARAOFF |0100|31.5| 49 |    | 41 |    | 31 |    | 05 |    |
|        9     ACHIMIL |0100|01.6| 04 |    | 00 |    | 00 |    | 01 |    |
|       10     TRIFREP |75.0|28.5| 54 |    | 34 |    | 25 |    |    |    |
|       11     STELLON |75.0|01.0| 01 |    | 00 |    |    |    | 01 |    |
|       12     FRAGVIR |75.0|00.8| 00 |    |    |    | 01 |    | 01 |    |
|       13     GEUMMAC |75.0|00.7|    |    | 00 |    | 01 |    | 01 |    |
|       14     GALIBOR |75.0|00.4|    |    | 00 |    | 00 |    | 00 |    |
|       15     HERALAN |50.0|01.5|    |    | 00 |    | 05 |    |    |    |
|       16     EPILANG |50.0|00.8|    |    | 00 |    |    |    | 02 |    |
|       17     VICIAME |50.0|00.5|    |    |    |    | 00 |    | 01 |    |
|       18     CIRSARV |25.0|02.3|    |    |    |    | 09 |    |    |    |
|       19     MENTARV |25.0|00.6|    |    |    |    |    |    | 02 |    |
|       20     SMILSTE |25.0|00.6|    |    |    |    |    |    | 02 |    |
|       21     ASTEMOD |25.0|00.5|    |    |    |    |    |    | 02 |    |
|       22     PLANMAJ |25.0|00.4|    |    |    |    | 01 |    |    |    |
|       23     ASTECIL |25.0|00.3|    |    |    |    |    |    | 01 |    |
|       24     EQUIARV |25.0|00.3|    |    |    |    | 01 |    |    |    |
|       25     CIRSUND |25.0|00.0|    |    | 00 |    |    |    |    |    |
|       26     GENTAMA |25.0|00.0|    |    | 00 |    |    |    |    |    |
|       27     SOLICAN |25.0|00.0|    |    | 00 |    |    |    |    |    |
|7      28     POA PRA |0100|38.3| 73 |    | 18 |    | 45 |    | 16 |    |
|       29     AGROTRA |0100|06.8| 03 |    | 07 |    | 03 |    | 13 |    |
|       30     CALACAN |50.0|07.3|    |    |    |    | 04 |    | 24 |    |
|       31     CARESPP |50.0|02.4|    |    |    |    | 00 |    | 09 |    |
|       32     BROMINE |25.0|00.6| 02 |    |    |    |    |    |    |    |
|       33     BROMCIL |25.0|00.5|    |    |    |    |    |    | 02 |    |
|       34     CAREPRA |25.0|00.5|    |    | 01 |    |    |    |    |    |
|       35     PHLEPRA |25.0|00.3|    |    | 01 |    |    |    |    |    |
|       36     AGROSCA |25.0|00.1| 00 |    |    |    |    |    |    |    |
--------------------------------------------------------------------------
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RESOURCE INVENTORY, EDMONTON ALBERTA
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Group name: Plains wormwood/Sheep fescue-Se
-------------------------------------------------------------------
|                         |    |    |           Plots             |
|                         |    |    |-----------------------------|
|                         |Avg |Avg | SLRR01  | SLMC03  | LLBSM10 |
|                         |----+----+---------+---------+---------|
|                         |% P | MC | Cv | Vg | Cv | Vg | Cv | Vg |
|-------------------------+----+----+----+----+----+----+----+----|
|LAYER   N       SPECIES  |    |    |    |    |    |    |    |    |
|1       1       BETUPAP  |33.3|01.7|    |    | 05 |    |    |    |
|        2       PICEGLA  |33.3|01.7| 05 |    |    |    |    |    |
|        3       PINUBAN  |33.3|01.7| 05 |    |    |    |    |    |
|4       4       SALISPP  |33.3|01.7|    |    | 05 |    |    |    |
|5       5       AMELALN  |0100|02.5| 03 |    | 00 |    | 03 |    |
|        6       ARCTUVA  |66.7|04.6|    |    | 08 |    | 05 |    |
|        7       ROSAACI  |66.7|00.5| 00 |    | 01 |    |    |    |
|        8       VACCMYR  |33.3|02.9|    |    |    |    | 08 |    |
|        9       VACCCAE  |33.3|00.2|    |    | 00 |    |    |    |
|6       10      ARTECAM  |0100|08.8| 10 |    | 13 |    | 02 |    |
|        11      ERIGPHI  |66.7|02.2| 06 |    | 00 |    |    |    |
|        12      SOLISPA  |66.7|01.6|    |    | 01 |    | 03 |    |
|        13      FRAGVIR  |66.7|00.9|    |    | 02 |    | 00 |    |
|        14      GALIBOR  |66.7|00.4| 00 |    | 00 |    |    |    |
|        15      VICIAME  |66.7|00.1| 00 |    | 00 |    |    |    |
|        16      TRIFREP  |33.3|01.3| 04 |    |    |    |    |    |
|        17      EQUILAE  |33.3|00.6|    |    | 01 |    |    |    |
|        18      COMAUMB  |33.3|00.4|    |    |    |    | 01 |    |
|        19      ERIGPER  |33.3|00.2|    |    |    |    | 00 |    |
|        20      ANEMMUL  |33.3|00.2|    |    | 00 |    |    |    |
|        21      CREPTEC  |33.3|00.2|    |    | 00 |    |    |    |
|        22      MAIACAN  |33.3|00.2|    |    |    |    | 00 |    |
|        23      VIOLADU  |33.3|00.2|    |    | 00 |    |    |    |
|        24      EPILANG  |33.3|00.1|    |    | 00 |    |    |    |
|        25      CERAARV  |33.3|00.1|    |    | 00 |    |    |    |
|        26      CAMPROT  |33.3|00.1|    |    | 00 |    |    |    |
|        27      GERARIC  |33.3|00.1|    |    | 00 |    |    |    |
|        28      TARAOFF  |33.3|00.1| 00 |    |    |    |    |    |
|        29      ACHIMIL  |33.3|00.0|    |    | 00 |    |    |    |
|        30      ASTELAE  |33.3|00.0|    |    | 00 |    |    |    |
|7       31      FESTSAX  |0100|08.4| 10 |    | 08 |    | 07 |    |
|        32      POA PRA  |0100|03.1| 04 |    | 01 |    | 03 |    |
|        33      AGROTRA  |0100|02.3| 05 |    | 01 |    | 00 |    |
|        34      ORYZPUN  |66.7|04.3|    |    | 00 |    | 12 |    |
|        35      AGROSCA  |66.7|01.5| 00 |    | 04 |    |    |    |
|        36      KOELMAC  |66.7|01.4|    |    | 00 |    | 03 |    |
|        37      SCHIPUR  |33.3|03.0|    |    | 09 |    |    |    |
|        38      CAREOBT  |33.3|02.9|    |    |    |    | 08 |    |
|        39      CARELAS  |33.3|02.4|    |    | 07 |    |    |    |
|        40      CAREPRA  |33.3|02.3| 07 |    |    |    |    |    |
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Group name: Plains wormwood/Sheep fescue-Se

------------------------------------------------------------------
|                       |    |    |          Plots              |
|                       |    |    |-----------------------------|
|                       |Avg |Avg | SLRR01  | SLMC03  | LLBSM10 |
|                       |----+----+---------+---------+---------|
|                       |% P | MC | Cv | Vg | Cv | Vg | Cv | Vg |
|-----------------------+----+----+----+----+----+----+----+----|
|LAYER  N      SPECIES  |    |    |    |    |    |    |    |    |
|7      41     CAREPRT  |33.3|01.3|    |    | 03 |    |    |    |
|       42     CALAMON  |33.3|00.1|    |    |    |    | 00 |    |
|8      43     MOSSSPP  |33.3|00.5|    |    | 01 |    |    |    |
|9      44     CLADRAN  |33.3|04.1| 12 |    |    |    |    |    |
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VEGETATION  REPORT                                                                                    13:34 Thursday, October 10, 1996   5
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RESOURCE INVENTORY, EDMONTON ALBERTA
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Group name: Plains wormwood/Kentucky bluegr
--------------------------------------------
|                      |    |    | Plots   |
|                      |    |    |---------|
|                      |Avg |Avg | SLAL04  |
|                      |----+----+---------|
|                      |% P | MC | Cv | Vg |
|----------------------+----+----+----+----|
|LAYER  N      SPECIES |    |    |    |    |
|5      1      ARCTUVA |0100|09.5| 09 |    |
|       2      PRUNVIR |0100|07.9| 07 |    |
|       3      ROSAACI |0100|04.5| 04 |    |
|       4      SYMPOCC |0100|02.7| 02 |    |
|       5      AMELALN |0100|02.4| 02 |    |
|       6      POPUTRE |0100|00.5| 00 |    |
|       7      RIBEOXY |0100|00.1| 00 |    |
|6      8      ARTECAM |0100|04.0| 04 |    |
|       9      ZIZIAPT |0100|02.6| 02 |    |
|       10     CAMPROT |0100|00.9| 00 |    |
|       11     ASTELAE |0100|00.6| 00 |    |
|       12     GALIBOR |0100|00.6| 00 |    |
|       13     ERIGPHI |0100|00.4| 00 |    |
|       14     EQUISCI |0100|00.3| 00 |    |
|       15     TRIFREP |0100|00.3| 00 |    |
|       16     FRAGVIR |0100|00.1| 00 |    |
|       17     VICIAME |0100|00.1| 00 |    |
|7      18     POA PRA |0100|49.0| 49 |    |
|       19     CARESPP |0100|13.4| 13 |    |
|       20     POA PAL |0100|05.5| 05 |    |
|       21     ORYZPUN |0100|03.5| 03 |    |
|       22     AGROTRA |0100|02.5| 02 |    |
|       23     SCHIPUR |0100|02.0| 02 |    |
|       24     FESTRUB |0100|01.4| 01 |    |
|       25     FESTIDA |0100|00.2| 00 |    |
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Group name: Willow/Sedge

					Plots											
			Avg	Avg	ATHLH06		SLHE07		SLMC04		NBRY08		NBRY09		NBRY03	
			% P	MC	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg
LAYER	N	SPECIES														
1	1	LARILAR	16.7	00.8			05									
	2	POPUBAL	16.7	00.8					05							
	3	PICEMAR	16.7	00.2			01									
2	4	BETUPAP	16.7	00.1											00	
4	5	SALIBEB	66.7	35.5			23		35		69		85			
	6	SALISPP	50.0	10.6	45		03		15							
	7	ALNUTEN	50.0	08.2							13		30		06	
	8	SALIPLA	33.3	10.0							00				59	
	9	SALIARB	33.3	00.3							01				00	
	10	BETUGLA	16.7	01.4			08									
5	11	RIBETRI	50.0	01.1							01		02		03	
	12	ROSAACI	50.0	00.7							00		03		00	
	13	CORNSTO	33.3	00.9							00		05			
	14	RUBUIDA	16.7	01.0							06					
6	15	EPILANG	66.7	02.5					00		10		03		00	
	16	RUBUPUB	50.0	01.2					00		01		05			
	17	PETASAG	50.0	00.9			00		01						03	
	18	EQUIARV	33.3	10.4									60		02	
	19	GEUMMAC	33.3	00.4	01										01	
	20	RUBUARC	16.7	02.1											12	
	21	POTEPAL	16.7	01.0			06									
	22	MENTARV	16.7	00.3	01											
	23	GALIBOR	16.7	00.2			01									
	24	RUMEOCC	16.7	00.2					01							
	25	SIUMSUA	16.7	00.1	00											
	26	RUMEACE	16.7	00.1	00											
	27	TARAOFF	16.7	00.1	00											
	28	ANEMCAN	16.7	00.0	00											
	29	MITENUD	16.7	00.0					00							
	30	SCUTGAL	16.7	00.0	00											
	31	SONCARV	16.7	00.0	00											
	32	VICIAME	16.7	00.0							00					
7	33	CALACAN	83.3	11.5	10		20		08		13				16	
	34	CAREAQU	50.0	14.3	43		35		07							
	35	CAREATH	50.0	12.3	21				21						31	
	36	CAREROS	50.0	06.6	02		17		20							
	37	POA PAL	33.3	00.2	00										00	
	38	CARECAP	16.7	01.4			08									
	39	CAREPRE	16.7	00.2	01											
8	40	MOSSSPP	16.7	02.1											12	

RESOURCE INVENTORY, EDMONTON ALBERTA

Group name: Willow/Sedge-Kentucky bluegrass

			Avg	Avg	Plots							
					ATHLH05		LLBSM04		LLBSM05		LLBSM07	
			% P	MC	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg
LAYER	N	SPECIES										
4	1	SALISPP	0100	25.3	40		30		30		01	
5	2	ROSAACI	25.0	02.6	10							
	3	POPUTRE	25.0	00.3	01							
6	4	MENTARV	75.0	03.3			04		06		02	
	5	GEUMMAC	75.0	02.2			00		04		04	
	6	RUMEACE	75.0	01.3			01		01		02	
	7	STELLON	50.0	00.2			00				00	
	8	GALIBOR	50.0	00.1	00				00			
	9	TRIFPRA	25.0	05.5	22							
	10	TARAOFF	25.0	04.8	19							
	11	PETASAG	25.0	03.8							15	
	12	TRIFREP	25.0	03.0	12							
	13	FRAGVIR	25.0	02.8	11							
	14	RUBUARC	25.0	02.5							10	
	15	PLANMAJ	25.0	02.0	08							
	16	ACHIMIL	25.0	00.9	03							
	17	POTEARG	25.0	00.6	02							
	18	EPILANG	25.0	00.5	02							
	19	RUBUPUB	25.0	00.4	01							
	20	PETAPAL	25.0	00.3	01							
	21	STACPAL	25.0	00.3			01					
	22	COMAUMB	25.0	00.2	00							
	23	CREPTEC	25.0	00.2	00							
	24	SCUTGAL	25.0	00.1	00							
	25	LATHOCH	25.0	00.1	00							
	26	URTIDIO	25.0	00.1			00					
	27	VICIAME	25.0	00.1	00							
	28	ASTECIL	25.0	00.0	00							
	29	SONCARV	25.0	00.0	00							
7	30	POA PRA	0100	21.4	07		20		15		42	
	31	POA PAL	0100	03.2	04		00		07		00	
	32	CAREROS	75.0	22.5			11		47		31	
	33	CAREATH	75.0	15.5			39		14		08	
	34	CAREAQU	75.0	01.0			00		00		03	
	35	CALACAN	50.0	00.0			00		00			
	36	PETASAG	25.0	05.3			21					
	37	CAREPRE	25.0	03.0	12							
	38	AGROSCA	25.0	01.4	05							
	39	CARECAP	25.0	00.6	02							
	40	BROMINE	25.0	00.5							02	

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RESOURCE INVENTORY, EDMONTON ALBERTA
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Group name: Willow/Sedge-Kentucky bluegrass

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|                        |    |    |                    Plots                      |
|                        |    |    |-----------------------------------------------|
|                        |Avg |Avg | ATHLH05   | LLBSM04   | LLBSM05   | LLBSM07   |
|                        |----+----+-----------+-----------+-----------+-----------|
|                        |% P | MC | Cv  | Vg  | Cv  | Vg  | Cv  | Vg  | Cv  | Vg  |
|------------------------+----+----+-----+-----+-----+-----+-----+-----+-----+-----|
|LAYER   N       SPECIES |    |    |     |     |     |     |     |     |     |     |
|7       41      ELYMINN |25.0|00.4| 01  |     |     |     |     |     |     |     |
|        42      PHLEPRA |25.0|00.3| 01  |     |     |     |     |     |     |     |
|        43      PHALARU |25.0|00.3|     |     | 01  |     |     |     |     |     |
|        44      AGROREP |25.0|00.0| 00  |     |     |     |     |     |     |     |
------------------------------------------------------------------------------------
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VEGETATION REPORT GROUP NAME :WILLOW/MARSH REEDGRASS GROUP : 6

RESOURCE INVENTORY, EDMONTON ALBERTA

Plot Number		Average		TIZZ08		SCHO05		SLWI06		ATHLH02		LLBRE03		LLBRE09		LLBRE01									
Layer		Value																							
	Species	% P	MC	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg
1	betupap	42.9	01.4									02	.	00	.	08	.								
	picemar	28.6	00.9									02	.	05	.										
	poputre	14.3	01.4													10	.								
4	salispp	0100	56.3	20	.	80	.	75	.	18	.	67	.	75	.	60	.								
	alnucri	28.6	02.0											10	.	04	.								
5	lonicae	28.6	00.4									02	.			02	.								
	ribelac	28.6	00.1									01	.			00	.								
	poputre	14.3	01.8							13	.														
	rosaaci	14.3	00.5							03	.														
	popubal	14.3	00.1							01	.														
	arctuva	14.3	00.1							01	.														
	rubuida	14.3	00.1					01	.																
	ledugro	14.3	00.1									01	.												
	loniinv	14.3	00.1					01	.																
	shepcan	14.3	00.0							00	.														
	betupap	14.3	00.0					00	.																
	picemar	14.3	00.0							00	.														
	prunvir	14.3	00.0					00	.																
	ribetri	14.3	00.0					00	.																
6	stellon	85.7	03.2	19	.	00	.	02	.			00	.	01	.	00	.								
	taraoff	57.1	02.9	07	.			12	.	01	.					01	.								
	geummac	57.1	00.9	02	.			04	.	00	.					00	.								
	petasag	57.1	00.7					00	.			01	.	01	.	03	.								
	fragvir	42.9	01.4					01	.	07	.					02	.								
	rubuaca	42.9	00.8							02	.	03	.			01	.								
	equiarv	42.9	00.7	00	.							04	.			01	.								
	viciame	42.9	00.5	01	.					02	.					01	.								
	scutgal	28.6	01.3	00	.			09	.																
	mentarv	28.6	01.0	07	.	00	.																		

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VEGETATION  REPORT          GROUP NAME :WILLOW/MARSH REEDGRASS                                          GROUP : 6
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                                                                                          RESOURCE INVENTORY, EDMONTON ALBERTA
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| Plot Number    |  Average   |TIZZ08  | SCHO05  | SLWI06  | ATHLH02 | LLBRE03 | LLBRE09 | LLBRE01 |                                    |
---------------------------------------------------------------------------------------------------------------------------------
| Layer          |   Value    |        |        |        |        |        |        |        |        |        |        |        |
|       Species | % P   MC   | Cv  Vg | Cv  Vg | Cv  Vg | Cv  Vg | Cv  Vg | Cv  Vg | Cv  Vg | Cv  Vg | Cv  Vg | Cv  Vg | Cv  Vg |
---------------------------------------------------------------------------------------------------------------------------------
|       trifrep |28.6   00.9 |        |        | 02   . | 04   . |        |        |        |        |        |        |        |
|       rubupub |28.6   00.3 |        | 01   . | 02   . |        |        |        |        |        |        |        |        |
|       senestr |28.6   00.2 |        |        |        | 02   . |        |        | 00   . |        |        |        |        |
|       potepal |28.6   00.2 |        | 01   . |        |        |        | 00   . |        |        |        |        |        |
|       astecil |28.6   00.1 |        |        |        | 00   . |        |        | 01   . |        |        |        |        |
|       rumeace |28.6   00.1 |        |        | 01   . |        |        |        | 00   . |        |        |        |        |
|       violorb |28.6   00.1 |        |        | 00   . | 01   . |        |        |        |        |        |        |        |
|       petapal |28.6   00.0 | 00   . |        |        | 00   . |        |        |        |        |        |        |        |
|       stacpal |14.3   00.6 | 04   . |        |        |        |        |        |        |        |        |        |        |
|       galetet |14.3   00.4 |        |        | 03   . |        |        |        |        |        |        |        |        |
|       mertpan |14.3   00.3 |        |        | 02   . |        |        |        |        |        |        |        |        |
|       polyspp |14.3   00.3 |        | 02   . |        |        |        |        |        |        |        |        |        |
|       solican |14.3   00.2 |        |        |        | 02   . |        |        |        |        |        |        |        |
|       pedispp |14.3   00.1 | 01   . |        |        |        |        |        |        |        |        |        |        |
|       astesib |14.3   00.1 |        |        | 01   . |        |        |        |        |        |        |        |        |
|       epilang |14.3   00.1 |        |        |        | 01   . |        |        |        |        |        |        |        |
|       galibor |14.3   00.1 |        |        |        | 01   . |        |        |        |        |        |        |        |
|       achimil |14.3   00.1 |        |        |        | 00   . |        |        |        |        |        |        |        |
|       soligra |14.3   00.1 |        |        |        | 00   . |        |        |        |        |        |        |        |
|       equisci |14.3   00.0 |        |        |        | 00   . |        |        |        |        |        |        |        |
|       soncarv |14.3   00.0 |        |        |        | 00   . |        |        |        |        |        |        |        |
|       epilgla |14.3   00.0 |        |        |        |        | 00   . |        |        |        |        |        |        |
|       lathoch |14.3   00.0 |        |        |        | 00   . |        |        |        |        |        |        |        |
|       petafri |14.3   00.0 |        |        |        | 00   . |        |        |        |        |        |        |        |
|       geraric |14.3   00.0 | 00   . |        |        |        |        |        |        |        |        |        |        |
|       moneuni |14.3   00.0 |        |        |        | 00   . |        |        |        |        |        |        |        |
|7      calacan |0100   34.4 | 36   . | 40   . | 22   . | 11   . | 48   . | 44   . | 41   . |        |        |        |        |
|       careros |57.1   05.9 | 13   . | 22   . |        |        | 02   . |        | 04   . |        |        |        |        |
|       carecap |57.1   01.8 |        | 01   . |        | 10   . | 00   . |        | 01   . |        |        |        |        |
|       poa pra |42.9   02.6 | 07   . |        | 07   . |        |        |        | 05   . |        |        |        |        |
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VEGETATION  REPORT        GROUP NAME :WILLOW/MARSH REEDGRASS                                                   GROUP : 6
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                                                                                             RESOURCE INVENTORY, EDMONTON ALBERTA
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| Plot Number    |  Average   |TIZZ08   | SCHO05  | SLWI06  | ATHLH02 | LLBRE03 | LLBRE09 | LLBRE01 |                                       |
---------------------------------------------------------------------------------------------------------------------------------------------
| Layer          |   Value    |         |         |         |         |         |         |         |         |         |         |         |
|        Species | % P    MC  | Cv   Vg | Cv   Vg | Cv   Vg | Cv   Vg | Cv   Vg | Cv   Vg | Cv   Vg | Cv   Vg | Cv   Vg | Cv   Vg | Cv   Vg |
---------------------------------------------------------------------------------------------------------------------------------------------
|      careequ   |28.6   03.5 |         |         |         |         |         | 23    . | 02    . |         |         |         |         |
|      juncbal   |28.6   03.3 |         |         |         | 21    . |         |         | 03    . |         |         |         |         |
|      carepri   |14.3   00.9 |         |         | 06    . |         |         |         |         |         |         |         |         |
|      poa pal   |14.3   00.9 |         |         |         |         |         |         | 06    . |         |         |         |         |
|      careaur   |14.3   00.4 |         |         |         |         |         |         | 03    . |         |         |         |         |
|      carecox   |14.3   00.4 |         |         |         |         |         |         | 03    . |         |         |         |         |
|      carepre   |14.3   00.4 |         |         |         |         |         |         | 03    . |         |         |         |         |
|      careath   |14.3   00.2 | 02    . |         |         |         |         |         |         |         |         |         |         |
|      scirmic   |14.3   00.2 |         | 02    . |         |         |         |         |         |         |         |         |         |
|      spheobt   |14.3   00.1 |         |         |         | 01    . |         |         |         |         |         |         |         |
|      poa com   |14.3   00.1 | 01    . |         |         |         |         |         |         |         |         |         |         |
|      bromcil   |14.3   00.0 |         |         |         | 00    . |         |         |         |         |         |         |         |
|8     mossspp   |28.6   23.5 |         |         |         | 75    . | 89    . |         |         |         |         |         |         |
|9     peltaph   |14.3   00.4 |         |         |         |         | 03    . |         |         |         |         |         |         |
---------------------------------------------------------------------------------------------------------------------------------------------
```

VEGETATION REPORT   GROUP NAME :WILLOW-ALDER/MARSH REEDGRASS   GROUP : 7

RESOURCE INVENTORY, EDMONTON ALBERTA

Plot Number		Average		WINK03		WINK04		LLBPA08		LLBPA01															
Layer	Species	Value % P	Value MC	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg
1	betupap	50.0	06.7			25	.			02	.														
	picegla	25.0	01.3			05	.																		
4	salispp	0100	48.7	40	.	40	.	65	.	50	.														
	alnuten	50.0	15.0	40	.	20	.																		
	alnucri	50.0	13.8					35	.	20	.														
5	rubuida	75.0	16.6			16	.	18	.	33	.														
	loniinv	75.0	06.6			09	.	13	.	05	.														
	rosaaci	50.0	03.2			05	.	09	.																
	cornsto	50.0	01.4			03	.			03	.														
	ribelac	50.0	01.2					00	.	05	.														
	ribetri	50.0	00.5					02	.	00	.														
	sympocc	25.0	03.0					12	.																
	betupap	25.0	00.5			02	.																		
	amelaln	25.0	00.4					02	.																
	lonicae	25.0	00.3					01	.																
	picegla	25.0	00.2			01	.																		
	vibuedu	25.0	00.2					01	.																
	ledugro	25.0	00.2			01	.																		
	lonidio	25.0	00.1					00	.																
6	galitri	75.0	04.0			11	.	01	.	05	.														
	galibor	75.0	00.9	02	.	00	.	01	.																
	aralnud	50.0	05.4			13	.			09	.														
	rubupub	50.0	03.9			11	.	05	.																
	mitenud	50.0	03.0			06	.			07	.														
	equiarv	50.0	02.4	04	.					06	.														
	mentarv	50.0	02.0	06	.	02	.																		
	scutgal	50.0	01.4			05	.			00	.														
	mertpan	50.0	01.3			01	.			04	.														
	delpgla	50.0	01.3					03	.	02	.														

VEGETATION REPORT GROUP NAME :WILLOW-ALDER/MARSH REEDGRASS GROUP : 7

RESOURCE INVENTORY, EDMONTON ALBERTA

Plot Number		Average		WINK03		WINK04		LLBPA08		LLBPA01															
Layer	Species	Value % P	MC	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg
	actarub	50.0	01.2					02	.	03	.														
	fragvir	50.0	01.1					03	.	02	.														
	viciame	50.0	01.1					02	.	02	.														
	petapal	50.0	01.0			02	.	02	.																
	astecil	50.0	00.7			03	.			00	.														
	lathoch	50.0	00.7					03	.	00	.														
	violcan	25.0	05.7							23	.														
	equisyl	25.0	05.2			21	.																		
	solican	25.0	01.6							07	.														
	corncan	25.0	01.5			06	.																		
	equiflu	25.0	01.3	05	.																				
	astecon	25.0	00.9					04	.																
	geummac	25.0	00.9	04	.																				
	epilang	25.0	00.5					02	.																
	malacan	25.0	00.4					02	.																
	stellon	25.0	00.4							02	.														
	achimil	25.0	00.1					01	.																
	petasag	25.0	00.1	01	.																				
7	calacan	0100	34.2	60	.	36	.	27	.	14	.														
	careros	25.0	06.7	27	.																				
	carespp	25.0	00.5			02	.																		
	agrotra	25.0	00.2					01	.																
	bromcil	25.0	00.1			01	.																		

```
VEGETATION  REPORT          GROUP NAME :WILLOW/FIREWEED
------------------                                                                          GROUP : 8

                                                                           RESOURCE INVENTORY, EDMONTON ALBERTA
-----------------------------------------------------------------------------------------------------------
| Plot Number     |  Average    |NBRY01  |
                                                                                                           |
-----------------------------------------------------------------------------------------------------------
| Layer           |   Value     |        |        |        |        |        |        |        |        |        |        |        |
|         Species | % P    MC   | Cv  Vg | Cv  Vg | Cv  Vg | Cv  Vg | Cv  Vg | Cv  Vg | Cv  Vg | Cv  Vg | Cv  Vg | Cv  Vg | Cv  Vg |
-----------------------------------------------------------------------------------------------------------
|                 |             |        |        |        |        |        |        |        |        |        |        |        |
|2      betupap   |0100   00.5  | 01   . |        |        |        |        |        |        |        |        |        |        |
|       poputre   |0100   00.5  | 01   . |        |        |        |        |        |        |        |        |        |        |
|4      salispp   |0100   21.0  | 21   . |        |        |        |        |        |        |        |        |        |        |
|5      rubuida   |0100   00.2  | 00   . |        |        |        |        |        |        |        |        |        |        |
|6      epilang   |0100   37.0  | 37   . |        |        |        |        |        |        |        |        |        |        |
|       fragvir   |0100   01.9  | 02   . |        |        |        |        |        |        |        |        |        |        |
|       geummac   |0100   01.7  | 02   . |        |        |        |        |        |        |        |        |        |        |
|       achimil   |0100   01.5  | 02   . |        |        |        |        |        |        |        |        |        |        |
|       camprot   |0100   00.3  | 00   . |        |        |        |        |        |        |        |        |        |        |
|       rubuarc   |0100   00.2  | 00   . |        |        |        |        |        |        |        |        |        |        |
|7      calacan   |0100   18.5  | 19   . |        |        |        |        |        |        |        |        |        |        |
|8      mossapp   |0100   11.0  | 11   . |        |        |        |        |        |        |        |        |        |        |
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VEGETATION  REPORT          GROUP NAME :WILLOW-SPRUCE/KENTUCKY BLUEGRASS                                      GROUP : 13
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                                                                                        RESOURCE INVENTORY, EDMONTON ALBERTA
-------------------------------------------------------------------------------------------------------------------------------
| Plot Number    |  Average   |SLJR04  |                                                                                      |
-------------------------------------------------------------------------------------------------------------------------------
| Layer          |   Value    |        |        |        |        |        |        |        |        |        |        |        |
|        Species | % P    MC  | Cv  Vg | Cv  Vg | Cv  Vg | Cv  Vg | Cv  Vg | Cv  Vg | Cv  Vg | Cv  Vg | Cv  Vg | Cv  Vg | Cv  Vg |
-------------------------------------------------------------------------------------------------------------------------------
|                |            |        |        |        |        |        |        |        |        |        |        |        |
|1      larilar  |0100   08.0 | 08   . |        |        |        |        |        |        |        |        |        |        |
|4      salispp  |0100   50.0 | 50   . |        |        |        |        |        |        |        |        |        |        |
|       picegla  |0100   25.0 | 25   . |        |        |        |        |        |        |        |        |        |        |
|5      poputre  |0100   05.0 | 05   . |        |        |        |        |        |        |        |        |        |        |
|6      trifrep  |0100   22.3 | 22   . |        |        |        |        |        |        |        |        |        |        |
|       taraoff  |0100   13.9 | 14   . |        |        |        |        |        |        |        |        |        |        |
|       stacpal  |0100   06.0 | 06   . |        |        |        |        |        |        |        |        |        |        |
|       mitenud  |0100   05.5 | 06   . |        |        |        |        |        |        |        |        |        |        |
|       ceraarv  |0100   03.3 | 03   . |        |        |        |        |        |        |        |        |        |        |
|       cirsarv  |0100   02.3 | 02   . |        |        |        |        |        |        |        |        |        |        |
|       achimil  |0100   00.8 | 01   . |        |        |        |        |        |        |        |        |        |        |
|       violren  |0100   00.2 | 00   . |        |        |        |        |        |        |        |        |        |        |
|7      poa pra  |0100   76.5 | 77   . |        |        |        |        |        |        |        |        |        |        |
|       bromcil  |0100   00.3 | 00   . |        |        |        |        |        |        |        |        |        |        |
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(CMB)

CENTRAL MIXEDWOOD SUBREGION

TAME FORAGE

COMMUNITY TYPES

VEGETATION SPECIES LIST

RESOURCE INVENTORY, EDMONTON ALBERTA

Group name: Kentucky bluegrass/Dandelion

					Plots															
			Avg	Avg	SLWI04		ATHLH01		ATHLH03		LLBSM01		LLBRE07		LLBSM02		LLBSM08		SLJR07	
			% P	MC	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg
LAYER	N	SPECIES																		
4	1	SALISPP	12.5	00.0			00													
	2	POPUBAL	12.5	00.0							00									
5	3	ROSAACI	12.5	00.1			00													
	4	POPUBAL	12.5	00.0			00													
6	5	TARAOFF	0100	16.9	31		03		89		00		07		00		00		02	
	6	ACHIMIL	75.0	00.7			01		01		00		00		01		00			
	7	TRIFREP	50.0	08.9	19		08		35										09	
	8	POTENOR	50.0	00.4			02				00		00		00					
	9	TRIFPRA	37.5	03.7			25		03				00							
	10	GALIBOR	37.5	00.4			01				00				02					
	11	PLANMAJ	25.0	03.6			02		26											
	12	STELLON	25.0	00.2													00		00	
	13	FRAGVIR	25.0	00.1			00				00									
	14	CHENALB	25.0	00.1			00								00					
	15	ASTECIL	25.0	00.0			00						00							
	16	CAPSBUR	12.5	00.6			05													
	17	CREPTEC	12.5	00.5			04													
	18	VIOLREN	12.5	00.5															03	
	19	EQUISYL	12.5	00.3			02													
	20	RUBUPUB	12.5	00.2															01	
	21	SCUTGAL	12.5	00.2															01	
	22	SOLIGRA	12.5	00.2			01													
	23	GEUMMAC	12.5	00.1															01	
	24	MATRMAT	12.5	00.1			01													
	25	EPILANG	12.5	00.1			00													
	26	SONCARV	12.5	00.1			00													
	27	THALVEN	12.5	00.1													00			
	28	THLAARV	12.5	00.1			00													
	29	EQUISCI	12.5	00.1	00															
	30	COMAUMB	12.5	00.0															00	
	31	GERARIC	12.5	00.0			00													
	32	POLYVIV	12.5	00.0											00					
	33	VICIAME	12.5	00.0			00													
	34	CERAARV	12.5	00.0			00													
	35	RUMEACE	12.5	00.0													00			
7	36	POA PRA	0100	54.9	58		04		44		48		64		72		66		61	
	37	BROMINE	62.5	03.9			00				08		17		04		00			
	38	AGROREP	37.5	12.4	55		03		41											
	39	PHLEPRA	37.5	02.2			11		03				03							
	40	POA PAL	25.0	01.0			06								01					

(CONTINUED)

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RESOURCE INVENTORY, EDMONTON ALBERTA
---------------------------------------------------


Group name: Kentucky bluegrass/Dandelion
--------------------------------------------------------------------------------------------------------------
|                        |    |    |                                 Plots                                     |
|                        |    |    |---------------------------------------------------------------------------|
|                        |Avg |Avg | SLWI04   | ATHLH01 | ATHLH03 | LLBSM01 | LLBRE07 | LLBSM02 | LLBSM08 | SLJR07  |
|                        |----+----+---------+---------+---------+---------+---------+---------+---------+---------|
|                        |% P | MC | Cv | Vg | Cv | Vg | Cv | Vg | Cv | Vg | Cv | Vg | Cv | Vg | Cv | Vg | Cv | Vg |
|------------------------+----+----+----+----+----+----+----+----+----+----+----+----+----+----+----+----+----+----|
|LAYER   N       SPECIES |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|7       41      HORDJUB |12.5|00.5|    |    |    | 03 |    |    |    |    |    |    |    |    |    |    |    |    |
|        42      CAREPRA |12.5|00.2|    | 01 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|        43      CARESPP |12.5|00.1|    |    |    |    |    |    |    |    | 01 |    |    |    |    |    |    |    |
|        44      FESTRUB |12.5|00.1|    | 00 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|        45      BROMCIL |12.5|00.0|    | 00 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
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RESOURCE INVENTORY, EDMONTON ALBERTA

Group name: K. bluegrass-Timothy/Dandelion

					Plots											
			Avg	Avg	WINK02		LLBPA05		SLAU03		SLAU04		LLBRE05		SLHO02	
			% P	MC	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg
LAYER	N	SPECIES														
4	1	SALISPP	33.3	02.4			00		14							
5	2	ROSAACI	33.3	01.1			00		06							
	3	RUBUIDA	33.3	00.7					03						00	
	4	SYMPOCC	16.7	00.4					02							
	5	PICEGLA	16.7	00.2	01											
6	6	TARAOFF	0100	36.0	23		47		28		42		47		27	
	7	TRIFREP	0100	12.0	21		00		27		20		03		00	
	8	EQUIARV	0100	06.4	01		00		01		05		01		28	
	9	ACHIMIL	83.3	01.7	00		03		02		00		04			
	10	FRAGVIR	66.7	02.8			04		12				00		00	
	11	VICIAME	50.0	01.3					00		05				01	
	12	ASTECIL	50.0	00.7			00		03						00	
	13	TRIFHYB	33.3	13.4							13				67	
	14	CIRSARV	33.3	03.3	19		00									
	15	HERALAN	33.3	02.6							06				09	
	16	THALVEN	33.3	00.7					00						04	
	17	EPILANG	33.3	00.4					01						00	
	18	MERTPAN	33.3	00.3					00		01					
	19	POTENOR	33.3	00.2			00						01			
	20	GEUMMAC	33.3	00.1			00		00							
	21	GALIBOR	16.7	00.2	01											
	22	PLANMAJ	16.7	00.1					00							
	23	EQUISYL	16.7	00.0									00			
	24	DESCRIC	16.7	00.0			00									
	25	SENESTR	16.7	00.0			00									
7	26	POA PRA	0100	39.7	53		10		59		51		20		43	
	27	PHLEPRA	0100	10.6	01		10		00		25		03		22	
	28	AGROTRA	50.0	01.2					01		03				03	
	29	HORDJUB	33.3	02.9	16		01									
	30	BROMINE	33.3	02.4			12						02			
	31	CALACAN	33.3	01.9	11										00	
	32	FESTRUB	16.7	01.3									07			
	33	POA PAL	16.7	00.3							01					
	34	CAREPRA	16.7	00.3									01			
	35	CARESPP	16.7	00.2					01							
	36	CAREROS	16.7	00.1	00											
	37	BROMCIL	16.7	00.1	00											
	38	ALOPAEQ	16.7	00.1			00									

```
Group name: Timothy/Dandelion
------------------------------------------
|                     |    |    |  Plots   |
|                     |    |    |---------|
|                     |Avg |Avg | LLBPA02  |
|                     |----+----+---------|
|                     |% P | MC | Cv | Vg  |
|---------------------+----+----+----+----|
|LAYER  N     SPECIES |    |    |    |    |
|6      1     TARAOFF |0100|41.5| 41 |    |
|       2     FRAGVIR |0100|04.0| 04 |    |
|       3     ASTECIL |0100|02.3| 02 |    |
|       4     TRIFPRA |0100|01.8| 01 |    |
|       5     ACHIMIL |0100|01.1| 01 |    |
|       6     GEUMMAC |0100|00.6| 00 |    |
|7      7     PHLEPRA |0100|28.5| 28 |    |
|       8     ALOPPRA |0100|03.0| 03 |    |
|       9     POA PRA |0100|01.8| 01 |    |
|       10    AGROINT |0100|01.2| 01 |    |
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RESOURCE INVENTORY, EDMONTON ALBERTA
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Group name: C. red fescue-K. bluegrass
----------------------------------------------------------------
|                       |    |    |          Plots             |
|                       |    |    |----------------------------|
|                       |Avg |Avg | TIZZ01  | SLAL01  | SLV001  |
|                       |----+----+---------+---------+---------|
|                       |% P | MC | Cv | Vg | Cv | Vg | Cv | Vg |
|-----------------------+----+----+----+----+----+----+----+----|
|LAYER  N      SPECIES  |    |    |    |    |    |    |    |    |
|5      1      ROSAACI  |66.7|02.6| 07 |    | 00 |    |    |    |
|       2      AMELALN  |33.3|01.8| 05 |    |    |    |    |    |
|       3      PRUNPEN  |33.3|01.7| 05 |    |    |    |    |    |
|       4      CORYCOR  |33.3|00.2| 00 |    |    |    |    |    |
|6      5      TARAOFF  |0100|06.4| 00 |    | 04 |    | 14 |    |
|       6      ACHIMIL  |0100|00.6| 01 |    | 00 |    | 00 |    |
|       7      TRIFREP  |66.7|01.7|    |    | 03 |    | 02 |    |
|       8      FRAGVIR  |66.7|00.1| 00 |    | 00 |    |    |    |
|       9      MEDISAT  |33.3|05.2| 15 |    |    |    |    |    |
|       10     CIRSARV  |33.3|00.1|    |    | 00 |    |    |    |
|       11     TRIFPRA  |33.3|00.1|    |    | 00 |    |    |    |
|7      12     POA PRA  |0100|38.2| 45 |    | 52 |    | 16 |    |
|       13     FESTRUB  |0100|34.0| 29 |    | 48 |    | 24 |    |
|       14     PHLEPRA  |0100|00.9| 01 |    | 00 |    | 01 |    |
|       15     CARESPP  |33.3|02.2| 06 |    |    |    |    |    |
|       16     POA PAL  |33.3|02.2| 06 |    |    |    |    |    |
|       17     ALOPPRA  |33.3|00.9| 02 |    |    |    |    |    |
|       18     BROMINE  |33.3|00.3|    |    |    |    | 00 |    |
----------------------------------------------------------------
```

```
Group name: C. red fescue-Hairgrass
--------------------------------------------
|                       |    |    |  Plots  |
|                       |    |    |---------|
|                       |Avg |Avg | LLBRE04 |
|                       |----+----+---------|
|                       |% P | MC | Cv | Vg |
|-----------------------+----+----+----+----|
|LAYER  N      SPECIES  |    |    |    |    |
|5      1      POPUTRE  |0100|00.1| 00 |    |
|6      2      POTETRI  |0100|02.5| 02 |    |
|       3      POTENOR  |0100|00.6| 00 |    |
|       4      FRAGVIR  |0100|00.5| 00 |    |
|       5      ACHIMIL  |0100|00.2| 00 |    |
|       6      EPILANG  |0100|00.1| 00 |    |
|       7      EQUIARV  |0100|00.1| 00 |    |
|       8      TARAOFF  |0100|00.1| 00 |    |
|7      9      FESTRUB  |0100|11.9| 11 |    |
|       10     AGROSCA  |0100|06.3| 06 |    |
|       11     PHLEPRA  |0100|02.0| 02 |    |
|       12     POA PRA  |0100|00.5| 00 |    |
--------------------------------------------
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RESOURCE INVENTORY, EDMONTON ALBERTA
---------------------------------------------------------


Group name: C. red fescue-Timothy/Dandelion
------------------------------------------------------------------------------------------------------------------------------------
|                         |    |    |                                        Plots                                               |
|                         |    |    |--------------------------------------------------------------------------------------------|
|                         |Avg |Avg | SLBE01  | SLBE02  | TIZZ02  | TIZZ06  | TIZZ11  | SLHE03  | SLMC04  | SLVO04  | SLHE04  |
|                         |----+----+---------+---------+---------+---------+---------+---------+---------+---------+---------|
|                         |% P | MC | Cv | Vg | Cv | Vg | Cv | Vg | Cv | Vg | Cv | Vg | Cv | Vg | Cv | Vg | Cv | Vg | Cv | Vg |
|-------------------------+----+----+----+----+----+----+----+----+----+----+----+----+----+----+----+----+----+----+----+----|
|LAYER  N    SPECIES      |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|4      1    SALISPP      |33.3|01.7| 00 |    | 00 |    |    |    |    |    |    |    |    |    |    |    |    |    | 14 |    |
|5      2    ROSAACI      |66.7|01.8| 01 |    | 02 |    | 05 |    |    |    | 00 |    | 02 |    |    |    |    |    | 03 |    |
|       3    RUBUIDA      |44.4|00.8| 00 |    | 02 |    |    |    |    |    |    |    | 00 |    |    |    |    |    | 04 |    |
|       4    SYMPOCC      |44.4|00.4| 00 |    | 02 |    |    |    |    |    | 00 |    |    |    |    |    |    |    | 00 |    |
|       5    POPUTRE      |33.3|00.7| 03 |    | 01 |    |    |    |    |    |    |    |    |    |    |    |    |    | 00 |    |
|       6    AMELALN      |22.2|00.0|    |    |    |    |    |    | 00 |    | 00 |    |    |    |    |    |    |    |    |    |
|       7    POPUBAL      |11.1|00.3|    |    | 03 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|       8    PICEGLA      |11.1|00.1|    |    | 00 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|       9    BETUPAP      |11.1|00.0|    |    | 00 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|       10   RIBEHIR      |11.1|00.0| 00 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|6      11   TARAOFF      |77.8|07.0| 13 |    | 03 |    | 02 |    |    |    |    |    | 13 |    | 00 |    | 14 |    | 14 |    |
|       12   TRIFREP      |55.6|05.4|    |    |    |    | 05 |    | 28 |    | 00 |    | 05 |    |    |    |    |    | 10 |    |
|       13   ACHIMIL      |55.6|01.0| 03 |    | 02 |    |    |    | 02 |    |    |    | 00 |    |    |    | 00 |    |    |    |
|       14   TRIFHYB      |44.4|05.0| 19 |    | 15 |    |    |    |    |    |    |    |    |    | 09 |    |    |    | 01 |    |
|       15   FRAGVIR      |44.4|03.0| 16 |    | 07 |    |    |    |    |    |    |    | 00 |    |    |    |    |    | 02 |    |
|       16   MERTPAN      |44.4|00.5| 00 |    | 02 |    |    |    |    |    |    |    | 00 |    |    |    |    |    | 00 |    |
|       17   MAIACAN      |44.4|00.3| 01 |    | 01 |    |    |    |    |    |    |    | 00 |    |    |    |    |    | 00 |    |
|       18   VICIAME      |33.3|00.4| 00 |    | 02 |    |    |    |    |    |    |    |    |    |    |    |    |    | 00 |    |
|       19   VIOLCAN      |33.3|00.3|    |    | 00 |    |    |    |    |    |    |    | 00 |    |    |    |    |    | 01 |    |
|       20   LATHOCH      |33.3|00.2| 00 |    | 00 |    |    |    |    |    |    |    |    |    |    |    |    |    | 01 |    |
|       21   GALIBOR      |33.3|00.2|    |    | 00 |    |    |    |    |    |    |    | 00 |    |    |    |    |    | 01 |    |
|       22   ARALNUD      |33.3|00.1| 00 |    | 00 |    |    |    |    |    |    |    |    |    |    |    |    |    | 00 |    |
|       23   EPILANG      |22.2|00.2| 00 |    | 01 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|       24   PETAPAL      |22.2|00.2| 00 |    | 00 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|       25   EQUIARV      |22.2|00.1| 00 |    |    |    | 00 |    |    |    |    |    |    |    |    |    |    |    |    |    |
|       26   ASTECIL      |22.2|00.1| 00 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 00 |    |
|       27   ASTECON      |11.1|00.5|    |    | 04 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|       28   TRIFPRA      |11.1|00.2|    |    |    |    | 01 |    |    |    |    |    |    |    |    |    |    |    |    |    |
|       29   MEDISAT      |11.1|00.1|    |    |    |    |    |    |    |    |    |    |    |    |    |    | 01 |    |    |    |
|       30   CERAARV      |11.1|00.1| 00 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|       31   CIRSARV      |11.1|00.1|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 00 |    |
|       32   PYROASA      |11.1|00.0| 00 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|       33   ARTECAM      |11.1|00.0|    |    |    |    |    |    | 00 |    |    |    |    |    |    |    |    |    |    |    |
|7      34   FESTRUB      |0100|50.3| 31 |    | 40 |    | 25 |    | 49 |    | 79 |    | 73 |    | 61 |    | 44 |    | 47 |    |
|       35   PHLEPRA      |77.8|05.8| 09 |    | 07 |    | 01 |    |    |    |    |    | 08 |    | 19 |    | 00 |    | 06 |    |
|       36   POA PRA      |77.8|03.1|    |    | 00 |    | 08 |    | 07 |    | 04 |    | 00 |    |    |    | 05 |    | 00 |    |
|       37   CARESPP      |66.7|01.4| 05 |    | 03 |    | 01 |    | 00 |    | 02 |    |    |    |    |    | 01 |    |    |    |
|       38   ELYMINN      |22.2|03.5| 07 |    | 24 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|       39   POA PAL      |22.2|02.2|    |    |    |    | 19 |    |    |    |    |    |    |    |    |    | 00 |    |    |    |
|       40   AGROPEC      |22.2|02.2|    |    |    |    | 10 |    | 09 |    |    |    |    |    |    |    |    |    |    |    |
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(CONTINUED)
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VEGETATION  REPORT
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RESOURCE INVENTORY, EDMONTON ALBERTA
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Group name: C. red fescue-Timothy/Dandelion
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|                          |    |    |                                          Plots                                          |
|                          |    |    |-----------------------------------------------------------------------------------------|
|                          |Avg |Avg | SLBE01  | SLBE02  | TIZZ02  | TIZZ06  | TIZZ11  | SLHE03  | SLMC04  | SLV004  | SLHE04  |
|                          |----+----+---------+---------+---------+---------+---------+---------+---------+---------+---------|
|                          |% P | MC | Cv | Vg | Cv | Vg | Cv | Vg | Cv | Vg | Cv | Vg | Cv | Vg | Cv | Vg | Cv | Vg | Cv | Vg |
|--------------------------+----+----+----+----+----+----+----+----+----+----+----+----+----+----+----+----+----+----+----+----|
|LAYER   N      SPECIES    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|7       41     BROMINE    |22.2|00.7|    |    |    |    |    |    |    |    |    |    |    |    | 04 |    | 01 |    |    |    |
|        42     CALACAN    |22.2|00.7| 03 |    | 03 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|        43     AGROTRA    |22.2|00.3|    |    |    |    |    |    | 00 |    | 02 |    |    |    |    |    |    |    |    |    |
|        44     KOELMAC    |11.1|00.1|    |    |    |    |    |    | 00 |    |    |    |    |    |    |    |    |    |    |    |
|        45     BROMCIL    |11.1|00.0| 00 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|8       46     MOSSSPP    |33.3|02.4| 07 |    | 10 |    |    |    |    |    |    |    | 05 |    |    |    |    |    |    |    |
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VEGETATION  REPORT                                                                                    13:55 Monday, September 23, 1996   1
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RESOURCE INVENTORY, EDMONTON ALBERTA
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Group name: Smooth brome
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|                         |    |    |       Plots       |
|                         |    |    |-------------------|
|                         |Avg |Avg | TIZZ04  | TIZZ10  |
|                         |----+----+---------+---------|
|                         |% P | MC | Cv | Vg | Cv | Vg |
|-------------------------+----+----+----+----+----+----|
|LAYER   N        SPECIES |    |    |    |    |    |    |
|5       1        AMELALN |50.0|02.4|    |    | 04 |    |
|        2        ROSAACI |50.0|01.4|    |    | 02 |    |
|        3        VACCMYR |50.0|00.8|    |    | 01 |    |
|6       4        TRIFREP |0100|02.3| 03 |    | 00 |    |
|        5        GALIBOR |50.0|00.3|    |    | 00 |    |
|        6        LATHOCH |50.0|00.3|    |    | 00 |    |
|        7        CORNCAN |50.0|00.2|    |    | 00 |    |
|        8        ACHIMIL |50.0|00.1|    |    | 00 |    |
|        9        VICIAME |50.0|00.1|    |    | 00 |    |
|7       10       PHLEPRA |0100|13.1| 17 |    | 08 |    |
|        11       POA PRA |0100|07.8| 15 |    | 00 |    |
|        12       CARESPP |0100|04.0| 02 |    | 06 |    |
|        13       BROMCIL |50.0|18.5| 37 |    |    |    |
|        14       BROMINE |50.0|12.4|    |    | 24 |    |
|        15       ORYZPUN |50.0|02.1|    |    | 04 |    |
|        16       FESTRUB |50.0|01.8| 03 |    |    |    |
|        17       FESTSAX |50.0|00.5|    |    | 01 |    |
|        18       CALARUB |50.0|00.0|    |    | 00 |    |
|        19       ORYZASP |50.0|00.0|    |    | 00 |    |
|8       20       MOSSSPP |50.0|00.9|    |    | 01 |    |
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(CMC)

CENTRAL MIXEDWOOD SUBREGION

DECIDUOUS

COMMUNITY TYPES

VEGETATION SPECIES LIST

Group name: Pb/Alder-Rose

			Avg	Avg	Plots							
					LLBPA04		LLBPA06		LLBPA09		SLV005	
			% P	MC	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg
LAYER	N	SPECIES										
1	1	POPUBAL	0100	50.0	65		60		65		10	
	2	BETUPAP	25.0	02.5					10			
	3	POPUTRE	25.0	00.5			02					
2	4	PICEGLA	25.0	02.5							10	
4	5	ALNUCRI	0100	20.5	15		15		12		40	
	6	SALIBEB	50.0	01.8	02				05			
	7	SALISPP	25.0	10.0							40	
5	8	ROSAACI	0100	12.8	13		16		15		08	
	9	LONIINV	0100	03.3	08		02		00		02	
	10	LONIDIO	0100	01.6	00		01		03		01	
	11	VIBUEDU	75.0	08.1	16		13		02			
	12	SYMPOCC	75.0	03.1	04		02		05			
	13	CORNSTO	75.0	02.1			02		05		00	
	14	RUBUIDA	75.0	01.3	03		01		01			
	15	RIBELAC	50.0	03.1	12						00	
	16	SHEPCAN	25.0	00.7							02	
	17	VACCVIT	25.0	00.1							00	
	18	RIBETRI	25.0	00.1			00					
	19	ARCTUVA	25.0	00.0							00	
6	20	FRAGVIR	0100	05.4	10		02		08		00	
	21	MERTPAN	0100	04.9	07		04		03		04	
	22	PETAPAL	0100	04.3	01		08		02		05	
	23	LATHOCH	0100	03.9	06		04		04		00	
	24	RUBUPUB	0100	02.6	00		03		03		02	
	25	PYROASA	0100	02.1	02		01		03		01	
	26	CORNCAN	0100	01.7	01		02		02		00	
	27	ASTECIL	0100	00.8	00		00		00		01	
	28	GALIBOR	75.0	04.1	08		02		05			
	29	LINNBOR	75.0	01.4	00		01				04	
	30	MITENUD	75.0	01.3	00		03				01	
	31	GALITRI	75.0	00.1	00		00				00	
	32	MAIACAN	50.0	00.8			02				01	
	33	VICIAME	50.0	00.6			01		00			
	34	TARAOFF	50.0	00.5					00		01	
	35	ACTARUB	50.0	00.2			00		00			
	36	VIOLCAN	50.0	00.1	00				00			
	37	EQUISCI	25.0	06.3							25	
	38	EPILANG	25.0	01.6			06					
	39	ARALNUD	25.0	00.6			02					
	40	EQUIARV	25.0	00.5							02	

(CONTINUED)

Group name: Pb/Alder-Rose

					Plots							
			Avg	Avg	LLBPA04		LLBPA06		LLBPA09		SLV005	
			% P	MC	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg
LAYER	N	SPECIES										
6	41	ACHIMIL	25.0	00.5							01	
	42	FRITPUD	25.0	00.4							01	
	43	ASTECON	25.0	00.3					01			
	44	HIERUMB	25.0	00.0			00					
	45	ORTHSEC	25.0	00.0							00	
7	46	CALACAN	0100	05.5	02		07		08		04	
	47	ELYMINN	25.0	00.4							01	
	48	CARESPP	25.0	00.3							01	
	49	BROMCIL	25.0	00.0			00					
8	50	MOSSSPP	50.0	14.2					00		56	

RESOURCE INVENTORY, EDMONTON ALBERTA

Group name: Pb-Aw/River alder

					Plots							
			Avg	Avg	NBRY02		GPMA01		GPMA07		GPMA08	
			% P	MC	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg
LAYER	N	SPECIES										
1	1	POPUBAL	0100	26.0	45		20		20		19	
	2	PICEGLA	0100	05.0	04		08		04		04	
	3	POPUTRE	75.0	22.5			35		30		25	
	4	BETUPAP	50.0	10.0			25				15	
2	5	POPUBAL	50.0	00.4	01		00					
	6	PICEGLA	25.0	00.8	03							
	7	POPUTRE	25.0	00.5					01			
4	8	ALNUTEN	25.0	09.8	39							
	9	SALIBEB	25.0	00.4	01							
5	10	CORNSTO	0100	09.8	06		05		17		11	
	11	ROSAACI	0100	08.9	07		18		04		04	
	12	VIBUEDU	0100	04.0	10		02		01		02	
	13	ALNUTEN	75.0	16.8			35		25		07	
	14	SYMPALB	75.0	02.4			00		04		05	
	15	CORYCOR	50.0	11.3					15		30	
	16	SALIBEB	50.0	11.3					30		15	
	17	RUBUIDA	50.0	05.1					04		15	
	18	ALNUCRI	50.0	03.5			05		09			
	19	RIBELAC	50.0	00.3			00				00	
	20	LONIINV	25.0	02.6			10					
	21	RIBETRI	25.0	00.3	01							
	22	SHEPCAN	25.0	00.2			00					
	23	VACCCAE	25.0	00.0			00					
6	24	EQUIARV	0100	14.8	45		01		03		09	
	25	RUBUPUB	0100	06.1	00		07		08		07	
	26	MITENUD	75.0	04.1			07		02		06	
	27	FRAGVIR	75.0	03.0			04		04		02	
	28	LATHOCH	75.0	02.7			03		05		02	
	29	MERTPAN	75.0	02.5			02		01		07	
	30	ASTECIL	75.0	02.4			03		04		02	
	31	GALIBOR	75.0	01.0			01		02		00	
	32	TARAOFF	75.0	00.5			00		00		00	
	33	GEUMMAC	75.0	00.3			00		00		00	
	34	ARALNUD	50.0	02.4			02		07			
	35	ASTECON	50.0	00.8					01		01	
	36	SMILRAC	50.0	00.4					00		00	
	37	PYROASA	50.0	00.4			01				00	
	38	ACTARUB	50.0	00.2	00				00			
	39	ACHIMIL	50.0	00.1			00		00			
	40	LINNBOR	25.0	01.1			04					

(CONTINUED)

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Group name: Pb-Aw/River alder

----------------------------------------------------------------------------
|                         |    |    |                 Plots                 |
|                         |    |    |---------------------------------------|
|                         |Avg |Avg | NBRY02  | GPMA01  | GPMA07  | GPMA08  |
|                         |----+----+---------+---------+---------+---------|
|                         |% P | MC | Cv | Vg | Cv | Vg | Cv | Vg | Cv | Vg |
|-------------------------+----+----+----+----+----+----+----+----+----+----|
|LAYER   N       SPECIES  |    |    |    |    |    |    |    |    |    |    |
|6       41      PETAPAL  |25.0|00.7|    |    |    |    | 02 |    |    |    |
|        42      HERALAN  |25.0|00.6|    |    |    |    | 02 |    |    |    |
|        43      MAIACAN  |25.0|00.4|    |    | 01 |    |    |    |    |    |
|        44      CORNCAN  |25.0|00.4|    |    | 01 |    |    |    |    |    |
|        45      VIOLADU  |25.0|00.3|    |    | 01 |    |    |    |    |    |
|        46      GALITRI  |25.0|00.3|    |    |    |    |    |    | 01 |    |
|        47      STELCAL  |25.0|00.2|    |    |    |    | 00 |    |    |    |
|        48      VICIAME  |25.0|00.2|    |    |    |    | 00 |    |    |    |
|        49      VIOLCAN  |25.0|00.0|    |    | 00 |    |    |    |    |    |
|7       50      CALACAN  |75.0|01.1| 00 |    |    |    | 04 |    | 00 |    |
|        51      ELYMINN  |50.0|00.5|    |    | 00 |    | 01 |    |    |    |
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RESOURCE INVENTORY, EDMONTON ALBERTA
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Group name: Pb-Aw/Hazelnut-Rose
--------------------------------------------------------------
|                           |    |    |      Plots        |
|                           |    |    |-------------------|
|                           |Avg |Avg | SLMC09  | TIZZ07  |
|                           |----+----+---------+---------|
|                           |% P | MC | Cv | Vg | Cv | Vg |
|---------------------------+----+----+----+----+----+----|
|LAYER  N     SPECIES |    |    |    |    |    |    |
|1      1     POPUBAL |50.0|32.5| 65 |    |    |    |
|       2     POPUTRE |50.0|20.0| 40 |    |    |    |
|       3     BETUPAP |50.0|01.5| 03 |    |    |    |
|4      4     CORYCOR |50.0|06.5| 13 |    |    |    |
|5      5     ROSAACI |0100|08.3| 04 |    | 12 |    |
|       6     CORYCOR |50.0|16.0|    |    | 32 |    |
|       7     POPUTRE |50.0|12.5|    |    | 25 |    |
|       8     PRUNPEN |50.0|10.0|    |    | 20 |    |
|       9     AMELALN |50.0|06.3|    |    | 12 |    |
|      10     RUBUIDA |50.0|05.5| 11 |    |    |    |
|      11     CORNSTO |50.0|04.3| 08 |    |    |    |
|      12     VIBUEDU |50.0|01.8| 03 |    |    |    |
|6     13     MAIACAN |0100|04.9| 01 |    | 08 |    |
|      14     LATHOCH |0100|04.1| 01 |    | 06 |    |
|      15     THALVEN |0100|02.9| 03 |    | 02 |    |
|      16     GALIBOR |0100|02.2| 03 |    | 00 |    |
|      17     ASTECIL |0100|00.8| 00 |    | 01 |    |
|      18     ACHIMIL |0100|00.6| 00 |    | 01 |    |
|      19     VICIAME |0100|00.4| 00 |    | 00 |    |
|      20     ARALNUD |50.0|11.9| 23 |    |    |    |
|      21     RUBUPUB |50.0|06.3| 12 |    |    |    |
|      22     PETAPAL |50.0|04.0| 08 |    |    |    |
|      23     COMAUMB |50.0|02.8|    |    | 05 |    |
|      24     SMILSTE |50.0|02.8| 05 |    |    |    |
|      25     EQUISYL |50.0|02.5| 05 |    |    |    |
|      26     LINNBOR |50.0|01.0| 02 |    |    |    |
|      27     MERTPAN |50.0|00.9| 01 |    |    |    |
|      28     MITENUD |50.0|00.8| 01 |    |    |    |
|      29     CAMPROT |50.0|00.5|    |    | 01 |    |
|      30     TARAOFF |50.0|00.5| 01 |    |    |    |
|      31     ACTARUB |50.0|00.4| 00 |    |    |    |
|      32     GALITRI |50.0|00.4| 00 |    |    |    |
|      33     APOCAND |50.0|00.3|    |    | 00 |    |
|      34     FRAGVIR |50.0|00.1|    |    | 00 |    |
|      35     LILIPHI |50.0|00.0| 00 |    |    |    |
|7     36     CARESPP |50.0|05.1|    |    | 10 |    |
|      37     CALACAN |50.0|04.8| 09 |    |    |    |
|      38     ORYZASP |50.0|03.6|    |    | 07 |    |
|      39     POA PRA |50.0|01.7|    |    | 03 |    |
|      40     SCHIPUR |50.0|00.9|    |    | 01 |    |
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RESOURCE INVENTORY, EDMONTON ALBERTA
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Group name: Pb-Aw/Hazelnut-Rose

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|                       |    |    |      Plots      |
|                       |    |    |-----------------|
|                       |Avg |Avg | SLMC09  | TIZZ07 |
|                       |----+----+---------+--------|
|                       |% P | MC | Cv | Vg | Cv | Vg |
|-----------------------+----+----+----+----+----+----|
|LAYER  N      SPECIES  |    |    |    |    |    |    |
|7      41     KOELMAC  |50.0|00.5|    |    | 01 |    |
|       42     AGROTRA  |50.0|00.4|    |    | 00 |    |
|       43     FESTSAX  |50.0|00.3|    |    | 00 |    |
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RESOURCE INVENTORY, EDMONTON ALBERTA

Group name: CMC3a Aw-Pb/Honeysuckle

			Avg	Avg	Plots	
					GOOSE05	
			% P	MC	Cv	Vg
LAYER	N	SPECIES				
1	1	POPUTRE	0100	60.0	60	
	2	POPUBAL	0100	20.0	20	
5	3	LONIINV	0100	31.0	31	
	4	RUBUIDA	0100	13.0	13	
	5	VIBUEDU	0100	10.0	10	
	6	ROSAACI	0100	09.0	09	
	7	CORNCAN	0100	07.0	07	
	8	RUBUPUB	0100	05.0	05	
	9	AMELALN	0100	02.0	02	
	10	LINNBOR	0100	01.0	01	
6	11	ARALNUD	0100	06.0	06	
	12	EPILANG	0100	05.0	05	
	13	GYMNDRY	0100	05.0	05	
	14	PYROASA	0100	02.0	02	
	15	ACTARUB	0100	01.0	01	
	16	ASTECON	0100	01.0	01	
	17	EQUISYL	0100	01.0	01	
	18	GALIBOR	0100	01.0	01	
	19	GALITRI	0100	01.0	01	
	20	LATHOCH	0100	01.0	01	
	21	MERTPAN	0100	01.0	01	
	22	MITENUD	0100	01.0	01	
	23	PETAPAL	0100	01.0	01	
7	24	CALACAN	0100	09.0	09	

```
Group name: Paper birch/Willow
---------------------------------------------
|                       |    |    |  Plots   |
|                       |    |    |----------|
|                       |Avg |Avg | SCH007   |
|                       |----+----+----------|
|                       |% P | MC | Cv | Vg  |
|-----------------------+----+----+----+-----|
|LAYER  N      SPECIES  |    |    |    |     |
|1      1      BETUPAP  |0100|40.0| 40 |     |
|4      2      SALISPP  |0100|50.0| 50 |     |
|       3      BETUPAP  |0100|15.0| 15 |     |
|6      4      OXYCMIC  |0100|24.5| 24 |     |
|       5      EQUIFLU  |0100|19.0| 19 |     |
|       6      POTEPAL  |0100|12.9| 12 |     |
|       7      STELCRA  |0100|01.5| 01 |     |
|       8      MENTARV  |0100|00.4| 00 |     |
|7      9      CALACAN  |0100|07.2| 07 |     |
|       10     CARECAP  |0100|06.0| 06 |     |
|       11     CAREROS  |0100|06.0| 06 |     |
|       12     CAREPRA  |0100|03.2| 03 |     |
|8      13     SPHAGSP  |0100|93.0| 93 |     |
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RESOURCE INVENTORY, EDMONTON ALBERTA
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Group name: Aw/Blueberry
--------------------------------------------------------------------
|                       |    |    |                Plots            |
|                       |    |    |---------------------------------|
|                       |Avg |Avg | TIZZ05  | SLMC01  | LLBSM03 | LLBSM08 |
|                       |----+----+---------+---------+---------+---------|
|                       |% P | MC | Cv | Vg | Cv | Vg | Cv | Vg | Cv | Vg |
|-----------------------+----+----+----+----+----+----+----+----+----+----|
|LAYER   N      SPECIES |    |    |    |    |    |    |    |    |    |    |
|1       1      POPUTRE |0100|45.0| 40 |    | 35 |    | 65 |    | 40 |    |
|        2      PICEGLA |25.0|00.5|    |    |    |    | 02 |    |    |    |
|        3      PINUBAN |25.0|00.5|    |    |    |    | 02 |    |    |    |
|        4      BETUGLA |25.0|00.3|    |    |    |    | 01 |    |    |    |
|        5      BETUPAP |25.0|00.3| 01 |    |    |    |    |    |    |    |
|4       6      SALISPP |25.0|05.0|    |    | 20 |    |    |    |    |    |
|        7      ALNUCRI |25.0|00.9|    |    |    |    |    |    | 03 |    |
|5       8      VACCMYR |0100|20.4| 37 |    | 19 |    | 11 |    | 13 |    |
|        9      ROSAACI |0100|10.5| 06 |    | 11 |    | 16 |    | 08 |    |
|        10     AMELALN |50.0|02.3|    |    |    |    | 08 |    | 00 |    |
|        11     RUBUIDA |50.0|01.6|    |    | 05 |    |    |    | 00 |    |
|        12     LEDUGRO |50.0|00.9| 02 |    | 01 |    |    |    |    |    |
|        13     VACCVIT |50.0|00.8| 00 |    |    |    |    |    | 03 |    |
|        14     SHEPCAN |50.0|00.2| 00 |    | 00 |    |    |    |    |    |
|        15     ARCTUVA |25.0|03.4|    |    | 13 |    |    |    |    |    |
|        16     POPUTRE |25.0|02.5| 10 |    |    |    |    |    |    |    |
|        17     SALISPP |25.0|01.6| 06 |    |    |    |    |    |    |    |
|        18     BETUPAP |25.0|00.5| 02 |    |    |    |    |    |    |    |
|        19     PICEGLA |25.0|00.5| 02 |    |    |    |    |    |    |    |
|        20     VACCMEM |25.0|00.5| 02 |    |    |    |    |    |    |    |
|        21     LONIDIO |25.0|00.4|    |    |    |    | 01 |    |    |    |
|        22     SYMPOCC |25.0|00.4|    |    |    |    | 01 |    |    |    |
|        23     VIBUEDU |25.0|00.1| 00 |    |    |    |    |    |    |    |
|6       24     CORNCAN |0100|07.3| 21 |    | 01 |    | 03 |    | 03 |    |
|        25     LATHOCH |0100|04.7| 06 |    | 03 |    | 08 |    | 00 |    |
|        26     MAIACAN |0100|04.5| 00 |    | 09 |    | 06 |    | 01 |    |
|        27     FRAGVIR |0100|03.6| 01 |    | 05 |    | 03 |    | 04 |    |
|        28     EPILANG |0100|02.7| 06 |    | 01 |    | 03 |    |    |    |
|        29     PETAPAL |0100|01.3| 00 |    | 00 |    | 03 |    | 00 |    |
|        30     LINNBOR |75.0|04.0| 07 |    | 06 |    |    |    | 02 |    |
|        31     RUBUPUB |75.0|02.1| 02 |    | 05 |    | 01 |    |    |    |
|        32     EQUIARV |75.0|01.6|    |    | 00 |    | 05 |    | 00 |    |
|        33     GALIBOR |75.0|01.0| 01 |    | 00 |    | 01 |    |    |    |
|        34     PYROASA |75.0|00.7|    |    | 00 |    | 00 |    | 01 |    |
|        35     VICIAME |75.0|00.5| 00 |    | 00 |    | 01 |    |    |    |
|        36     MELALIN |50.0|00.7|    |    |    |    | 01 |    | 00 |    |
|        37     ASTECIL |50.0|00.2| 00 |    |    |    | 00 |    |    |    |
|        38     ARALNUD |25.0|01.4|    |    | 05 |    |    |    |    |    |
|        39     ACTARUB |25.0|00.3|    |    |    |    | 01 |    |    |    |
|        40     CAMPROT |25.0|00.3|    |    | 01 |    |    |    |    |    |
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VEGETATION  REPORT                                                            14:52 Friday, September 6, 1996  10
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RESOURCE INVENTORY, EDMONTON ALBERTA
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Group name: Aw/Blueberry
-----------------------------------------------------------------------------------
|                       |    |    |                     Plots                     |
|                       |    |    |-----------------------------------------------|
|                       |Avg |Avg | TIZZ05    | SLMC01    | LLBSM03   | LLBSM08   |
|                       |----+----+-----------+-----------+-----------+-----------|
|                       |% P | MC | Cv  | Vg  | Cv  | Vg  | Cv  | Vg  | Cv  | Vg  |
|-----------------------+----+----+-----+-----+-----+-----+-----+-----+-----+-----|
|LAYER   N      SPECIES |    |    |     |     |     |     |     |     |     |     |
|6       41     LILIPHI |25.0|00.1|     |     |     |     | 00  |     |     |     |
|        42     ASTELAE |25.0|00.1|     |     |     |     |     |     | 00  |     |
|        43     TARAOFF |25.0|00.1|     |     |     |     |     |     | 00  |     |
|        44     ACHIMIL |25.0|00.1|     |     |     |     |     |     | 00  |     |
|        45     EQUISYL |25.0|00.1| 00  |     |     |     |     |     |     |     |
|        46     RHINMIN |25.0|00.1|     |     | 00  |     |     |     |     |     |
|        47     VIOLCAN |25.0|00.0|     |     |     |     | 00  |     |     |     |
|        48     MITENUD |25.0|00.0|     |     | 00  |     |     |     |     |     |
|7       49     ORYZASP |0100|03.0| 02  |     | 06  |     | 02  |     | 01  |     |
|        50     ELYMINN |75.0|05.0|     |     | 10  |     | 07  |     | 02  |     |
|        51     SCHIPUR |75.0|02.8| 01  |     |     |     | 07  |     | 02  |     |
|        52     CALACAN |75.0|01.4|     |     | 05  |     | 00  |     | 00  |     |
|        53     CAREPRA |50.0|01.2|     |     | 02  |     | 02  |     |     |     |
|        54     CARESPP |25.0|02.4|     |     |     |     |     |     | 09  |     |
|        55     ORYZPUN |25.0|00.2| 00  |     |     |     |     |     |     |     |
|        56     AGROTRA |25.0|00.0|     |     |     |     | 00  |     |     |     |
|        57     POA PRA |25.0|00.0|     |     |     |     |     |     | 00  |     |
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RESOURCE INVENTORY, EDMONTON ALBERTA
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Group name: Aw/Rose/Twinflower
-----------------------------------------------------------------------------------------------------
|                        |    |     |                            Plots                               |
|                        |    |     |----------------------------------------------------------------|
|                        |Avg |Avg  | SLRR03  | LLBBOO2 | WHTBOO4 | SLRR04  | SLWI02  | SLWI03  |
|                        |----+-----+---------+---------+---------+---------+---------+---------|
|                        |% P | MC  | Cv | Vg | Cv | Vg | Cv | Vg | Cv | Vg | Cv | Vg | Cv | Vg |
|------------------------+----+-----+----+----+----+----+----+----+----+----+----+----+----+----|
|LAYER  N     SPECIES    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |
|1      1     POPUTRE    |0100|53.3| 30  |    | 65 |    | 75 |    | 25 |    | 75 |    | 50 |    |
|       2     PICEGLA    |66.7|05.0|     |    | 20 |    | 03 |    |    |    | 05 |    | 02 |    |
|       3     BETUPAP    |33.3|00.5|     |    | 01 |    |    |    |    |    |    |    | 02 |    |
|       4     POPUBAL    |16.7|02.5|     |    |    |    |    |    |    |    |    |    | 15 |    |
|2      5     POPUTRE    |16.7|00.1|     |    |    |    | 00 |    |    |    |    |    |    |    |
|4      6     ALNUCRI    |33.3|00.9| 05  |    |    |    | 00 |    |    |    |    |    |    |    |
|       7     SALISPP    |16.7|01.7|     |    |    |    | 10 |    |    |    |    |    |    |    |
|       8     SALIBEB    |16.7|00.2|     |    |    |    |    |    |    |    | 01 |    |    |    |
|5      9     ROSAACI    |0100|11.2| 18  |    | 15 |    | 06 |    | 12 |    | 08 |    | 06 |    |
|       10    SYMPOCC    |0100|02.8| 04  |    | 03 |    | 00 |    | 05 |    | 01 |    | 01 |    |
|       11    VIBUEDU    |83.3|01.9| 01  |    | 07 |    | 00 |    |    |    | 01 |    | 00 |    |
|       12    LONIDIO    |83.3|00.9| 00  |    | 03 |    |    |    | 00 |    | 01 |    | 00 |    |
|       13    SHEPCAN    |66.7|00.3| 00  |    |    |    | 00 |    |    |    | 00 |    | 00 |    |
|       14    VACCCAE    |50.0|00.9|     |    |    |    | 01 |    | 00 |    |    |    | 03 |    |
|       15    POPUTRE    |50.0|00.7| 01  |    |    |    |    |    | 01 |    |    |    | 01 |    |
|       16    RUBUIDA    |50.0|00.7| 01  |    |    |    |    |    |    |    | 00 |    | 01 |    |
|       17    RIBELAC    |33.3|01.3| 06  |    | 01 |    |    |    |    |    |    |    |    |    |
|       18    LONIINV    |33.3|01.0|     |    | 02 |    |    |    |    |    | 03 |    |    |    |
|       19    VACCVIT    |33.3|00.5|     |    |    |    | 01 |    | 01 |    |    |    |    |    |
|       20    AMELALN    |16.7|00.6|     |    |    |    |    |    |    |    | 03 |    |    |    |
|       21    SALISPP    |16.7|00.3|     |    | 02 |    |    |    |    |    |    |    |    |    |
|       22    CORNSTO    |16.7|00.3| 01  |    |    |    |    |    |    |    |    |    |    |    |
|       23    VACCMYR    |16.7|00.3|     |    |    |    |    |    | 01 |    |    |    |    |    |
|       24    RIBEOXY    |16.7|00.0|     |    |    |    | 00 |    |    |    |    |    |    |    |
|6      25    LINNBOR    |0100|19.1| 31  |    | 20 |    | 11 |    | 13 |    | 22 |    | 16 |    |
|       26    FRAGVIR    |0100|05.0| 02  |    | 08 |    | 09 |    | 05 |    | 04 |    | 02 |    |
|       27    CORNCAN    |0100|04.9| 04  |    | 10 |    | 06 |    | 00 |    | 03 |    | 04 |    |
|       28    LATHOCH    |0100|03.0| 02  |    | 01 |    | 01 |    | 01 |    | 07 |    | 03 |    |
|       29    PYROASA    |0100|02.6| 01  |    | 01 |    | 01 |    | 00 |    | 07 |    | 04 |    |
|       30    RUBUPUB    |0100|02.4| 02  |    | 02 |    | 03 |    | 00 |    | 02 |    | 04 |    |
|       31    MAIACAN    |0100|02.4| 01  |    | 02 |    | 02 |    | 03 |    | 01 |    | 02 |    |
|       32    GALIBOR    |0100|02.1| 02  |    | 03 |    | 01 |    | 01 |    | 03 |    | 01 |    |
|       33    PETAPAL    |83.3|01.7| 01  |    | 04 |    | 04 |    | 00 |    |    |    | 00 |    |
|       34    ASTECIL    |83.3|01.4| 00  |    | 01 |    | 02 |    |    |    | 01 |    | 02 |    |
|       35    TARAOFF    |83.3|00.6| 00  |    | 00 |    | 00 |    | 01 |    |    |    | 01 |    |
|       36    VICIAME    |83.3|00.4| 00  |    | 00 |    | 00 |    |    |    | 01 |    | 00 |    |
|       37    TRIFREP    |66.7|01.5|     |    | 01 |    |    |    | 01 |    | 01 |    | 05 |    |
|       38    MITENUD    |50.0|02.4| 08  |    | 04 |    | 01 |    |    |    |    |    |    |    |
|       39    EQUIARV    |50.0|00.4| 01  |    |    |    |    |    | 00 |    |    |    | 00 |    |
|       40    MERTPAN    |50.0|00.3| 00  |    | 00 |    | 01 |    |    |    |    |    |    |    |
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VEGETATION  REPORT
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RESOURCE INVENTORY, EDMONTON ALBERTA
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Group name: Aw/Rose/Twinflower
-------------------------------------------------------------------------------------------
|                     |    |    |                            Plots                         |
|                     |    |    |----------------------------------------------------------|
|                     |Avg |Avg | SLRR03  | LLBB002 | WHTB004 | SLRR04  | SLWI02  | SLWI03  |
|                     |----+----+---------+---------+---------+---------+---------+---------|
|                     |% P | MC | Cv | Vg | Cv | Vg | Cv | Vg | Cv | Vg | Cv | Vg | Cv | Vg |
|---------------------+----+----+----+----+----+----+----+----+----+----+----+----+----+----|
|LAYER  N     SPECIES |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|6      41    EPILANG |50.0|00.2| 00 |    | 00 |    |    |    |    |    |    |    | 00 |    |
|       42    ARALNUD |33.3|01.5|    |    | 01 |    |    |    |    |    | 08 |    |    |    |
|       43    EQUISCI |33.3|00.3| 00 |    |    |    |    |    | 01 |    |    |    |    |    |
|       44    GALITRI |33.3|00.3| 01 |    | 00 |    |    |    |    |    |    |    |    |    |
|       45    ACHIMIL |16.7|00.1|    |    |    |    |    |    | 00 |    |    |    |    |    |
|       46    FRAGVES |16.7|00.1| 00 |    |    |    |    |    |    |    |    |    |    |    |
|       47    ORTHSEC |16.7|00.1|    |    |    |    |    |    |    |    |    |    | 00 |    |
|       48    CAMPROT |16.7|00.0|    |    |    |    |    |    |    |    |    |    | 00 |    |
|       49    HALEDEF |16.7|00.0|    |    |    |    |    |    |    |    |    |    | 00 |    |
|       50    HIERUMB |16.7|00.0|    |    |    |    | 00 |    |    |    |    |    |    |    |
|       51    ACTARUB |16.7|00.0|    |    |    |    |    |    |    |    | 00 |    |    |    |
|       52    THALVEN |16.7|00.0|    |    |    |    |    |    |    |    | 00 |    |    |    |
|7      53    ELYMINN |83.3|02.8| 03 |    |    |    | 03 |    | 05 |    | 01 |    | 04 |    |
|       54    SCHIPUR |83.3|02.8|    |    | 00 |    | 03 |    | 04 |    | 03 |    | 05 |    |
|       55    POA PRA |83.3|02.3| 06 |    | 00 |    |    |    | 03 |    | 02 |    | 00 |    |
|       56    CALACAN |83.3|01.4| 02 |    | 04 |    | 00 |    |    |    | 00 |    | 00 |    |
|       57    CAREPRA |50.0|00.8| 03 |    |    |    |    |    | 00 |    | 01 |    |    |    |
|       58    ORYZASP |33.3|01.3|    |    |    |    |    |    | 01 |    | 07 |    |    |    |
|       59    AGROSCA |16.7|00.2|    |    |    |    |    |    |    |    |    |    | 01 |    |
|       60    POA PAL |16.7|00.2|    |    |    |    |    |    |    |    |    |    | 01 |    |
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RESOURCE INVENTORY, EDMONTON ALBERTA

Group name: CMC7 Aw/Rose/Lowforb

					Plots																									
			Avg	Avg	PUSK07		LLBMI02		SLAL03		SLRO02		SLON02		SLBE05		WHTBO02		SLRO05		SLAU01		SLMC05		SLHE04		SLBE03		WHTBO03	
			% P	MC	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg
LAYER	N	SPECIES																												
1	1	POPUTRE	0100	49.7	60		60		50		65		70		50		40		65		50		25		45		65		70	
	2	POPUBAL	53.3	08.1			05				10						20		15		10				01					
	3	PICEGLA	46.7	01.9			04		08								08		03				01						02	
	4	BETUPAP	26.7	01.9					05								10												10	
	5	PICEMAR	06.7	00.7																										
2	6	PICEGLA	06.7	00.1													02													
	7	POPUTRE	06.7	00.0																									00	
4	8	SALISPP	13.3	05.9																							13			
	9	CORYCOR	13.3	00.5																					00		08			
	10	SALISCO	06.7	00.3																					04					
	11	SALIBEB	06.7	00.0													00													
5	12	ROSAACI	0100	16.1	17		22		04		06		15		42		11		07		12		11		14		25		17	
	13	SYMPOCC	80.0	08.0					08		08		09		15		01		05				17		08		36		05	
	14	RUBUIDA	73.3	05.8			05		11		18				23				01		05		01		13		03		01	
	15	VIBUEDU	73.3	02.6	05		07		01		00		05		02		09		00				01		03					
	16	LONIINV	66.7	03.1	03		11		12		06		00				03		00				01							
	17	AMELALN	53.3	03.4	03						01		05		05				07				16				09		02	
	18	LONIDIO	33.3	00.6	01												00		02						04				00	
	19	RIBELAC	33.3	00.3							00								00				01		00					
	20	CORNSTO	26.7	00.5															01						00		01			
	21	LEDUGRO	20.0	00.4	01												00													
	22	VACCMYR	20.0	00.4	02								00																	
	23	SHEPCAN	20.0	00.4	01										03															
	24	POPUTRE	20.0	00.3					00						01				02											
	25	RIBEOXY	20.0	00.2			01										00				00									
	26	VACCVIT	13.3	00.3	01																									
	27	SALISPP	13.3	00.3	02		02																							
	28	POPUBAL	13.3	00.1					00										01											
	29	CORNCAN	06.7	00.5	08																									
	30	PICEGLA	06.7	00.3					05																					
	31	LINNBOR	06.7	00.3	04																									
	32	CALACAN	06.7	00.3																										
	33	SALIBEB	06.7	00.1																										
	34	BETUGLA	06.7	00.1																										
	35	RIBETRI	06.7	00.1															01											
	36	RIBEGLA	06.7	00.1																										
	37	RUBUPUB	06.7	00.1	01																									
	38	VACCCAE	06.7	00.1	01																									
	39	BETUPAP	06.7	00.1																										
	40	RIBEHIR	06.7	00.0											00															

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Group name: CMC7 Aw/Rose/Lowforb

					Plots																									
			Avg	Avg	PUSK07		LLBMI02		SLAL03		SLRO02		SLON02		SLBE05		WHTBO02		SLRO05		SLAU01		SLMC05		SLHE04		SLBE03		WHTBO03	
			% P	MC	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg
LAYER	N	SPECIES																												
6	41	FRAGVIR	0100	04.8	01				05		02		03		10		07		03		00		06		03		02		07	
	42	GALIBOR	93.3	02.0	01				03		01		02		01		01		01		03		01		03		02		02	
	43	CORNCAN	80.0	02.9			02		06		01		00				11		00				00		01		01		05	
	44	EPILANG	80.0	02.9	01		07				01		03		10		01				06		00		07		02			
	45	PETAPAL	80.0	02.6	01		00		03		01				10		00		00				00				07		04	
	46	MAIACAN	80.0	02.3	02				04		01		01		04		00		01				06		05		02		02	
	47	VICIAME	80.0	00.5			00		01		00		00		00		00		00		01				02		00		00	
	48	ASTECIL	73.3	02.8			02				06		01		02		03		04						05		08		03	
	49	LATHOCH	73.3	02.6					11		01		02		04		03		01				04		00		01		04	
	50	RUBUPUB	66.7	03.8			10				04		04				09		05						02		06		06	
	51	PYROASA	60.0	02.2					03		12		01				03		02				00						04	
	52	THALVEN	60.0	02.0	01						03		00		02				02		11		03				04			
	53	MERTPAN	60.0	00.9			00				00						04		02		00				01		00		00	
	54	MITENUD	53.3	01.7			10		00								02		03				00						03	
	55	EQUIARV	53.3	01.4			00		08		01						00		02		02		01							
	56	ARALNUD	53.3	01.2			03		04				04		03		00		00						01				01	
	57	TARAOFF	53.3	00.5					01		00				00						00				00		00		00	
	58	LINNBOR	46.7	01.4			01		00				02				05								10					
	59	VIOLCAN	40.0	00.5			00												03				00		02				00	
	60	ACHIMIL	40.0	00.2			00						00		00								00		00					
	61	GALITRI	26.7	00.2			01		00										00						01					
	62	ASTECON	20.0	00.5																			07		00				00	
	63	RUBUARC	20.0	00.2					00						00								01							
	64	HERALAN	13.3	00.6															00		09									
	65	TRIFREP	13.3	00.5					02																					
	66	ACTARUB	13.3	00.3	04														00											
	67	VIOLADU	13.3	00.2											00												02			
	68	VIOLREN	13.3	00.2			02																							
	69	SMILSTE	13.3	00.2							00																			
	70	EQUISCI	13.3	00.2					00																					
	71	EQUISYL	13.3	00.0							00						00													
	72	SOLICAN	06.7	00.3																										
	73	VACCVIT	06.7	00.1													02													
	74	AQUIFLA	06.7	00.1	01																									
	75	ZIZIAPT	06.7	00.0																										
	76	GEUMMAC	06.7	00.0															00											
	77	PETASAG	06.7	00.0																										
	78	VIOLORB	06.7	00.0									00																	
	79	CERAARV	06.7	00.0																							00			
7	80	CALACAN	93.3	05.7	04		11		08		05		20		04		04		01		16		01		03		00		01	

(CONTINUED)

RESOURCE INVENTORY, EDMONTON ALBERTA

Group name: CMC7 Aw/Rose/Low forb

					Plots																									
			Avg	Avg	PUSK07		LLBMI02		SLAL03		SLR002		SLON02		SLBE05		WHTB002		SLR005		SLAU01		SLMC05		SLHE04		SLBE03		WHTB003	
			% P	MC	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg
LAYER	N	SPECIES																												
7	81	ELYMINN	53.3	02.9	01						05		07		01								12		03		10		00	
	82	AGROTRA	33.3	00.2									00		01						00				00		01			
	83	SCHIPUR	26.7	00.2									00						00		00		00							
	84	CAREPRA	26.7	00.1							00						00		00										00	
	85	CARESPP	20.0	00.9					01												00									
	86	BROMCIL	20.0	00.2											02		00													
	87	POA PRA	13.3	00.4													00													
	88	ORYZASP	13.3	00.3							00		03																	
	89	JUNCBAL	06.7	00.1																										
	90	CAREGYN	06.7	00.0													00													
	91	AGROSCA	06.7	00.0																										
8	92	MOSSSPP	26.7	01.0					02						01		02						09							

(CONTINUED)

Group name: CMC7 Aw/Rose/Low forb

			Plots			
			SLJR03		GPGE12	
			Cv	Vg	Cv	Vg
LAYER	N	SPECIES				
1	1	POPUTRE	10		20	
	2	POPUBAL	40		20	
	3	PICEGLA			03	
	4	BETUPAP			03	
	5	PICEMAR	10			
2	6	PICEGLA				
	7	POPUTRE				
4	8	SALISPP	75			
	9	CORYCOR				
	10	SALISCO				
	11	SALIBEB				
5	12	ROSAACI	03		31	
	13	SYMPOCC	01		04	
	14	RUBUIDA			03	
	15	VIBUEDU			03	
	16	LONIINV	02		05	
	17	AMELALN				
	18	LONIDIO				
	19	RIBELAC			01	
	20	CORNSTO			05	
	21	LEDUGRO	05			
	22	VACCMYR	03			
	23	SHEPCAN	01			
	24	POPUTRE				
	25	RIBEOXY				
	26	VACCVIT	03			
	27	SALISPP				
	28	POPUBAL				
	29	CORNCAN				
	30	PICEGLA				
	31	LINNBOR				
	32	CALACAN			03	
	33	SALIBEB			02	
	34	BETUGLA	01			
	35	RIBETRI				
	36	RIBEGLA	01			
	37	RUBUPUB				
	38	VACCCAE				
	39	BETUPAP	00			
	40	RIBEHIR				

(CONTINUED)

Group name: CMC7 Aw/Rose/Lowforb

			Plots			
			SLJR03		GPGE12	
			Cv	Vg	Cv	Vg
LAYER	N	SPECIES				
6	41	FRAGVIR	15		03	
	42	GALIBOR	00		03	
	43	CORNCAN	01		08	
	44	EPILANG	00		02	
	45	PETAPAL	03		02	
	46	MAIACAN			01	
	47	VICIAME	00			
	48	ASTECIL	05		00	
	49	LATHOCH			03	
	50	RUBUPUB	03		04	
	51	PYROASA	02		01	
	52	THALVEN	00			
	53	MERTPAN			01	
	54	MITENUD	02		02	
	55	EQUIARV			04	
	56	ARALNUD				
	57	TARAOFF	02			
	58	LINNBOR	00		00	
	59	VIOLCAN			00	
	60	ACHIMIL	01			
	61	GALITRI				
	62	ASTECON				
	63	RUBUARC				
	64	HERALAN				
	65	TRIFREP	05			
	66	ACTARUB				
	67	VIOLADU				
	68	VIOLREN	00			
	69	SMILSTE			02	
	70	EQUISCI	02			
	71	EQUISYL				
	72	SOLICAN			04	
	73	VACCVIT				
	74	AQUIFLA				
	75	ZIZIAPT	00			
	76	GEUMMAC				
	77	PETASAG	00			
	78	VIOLORB				
	79	CERAARV				
7	80	CALACAN	02			

(CONTINUED)

Group name: CMC7 Aw/Rose/Lowforb

			Plots			
			SLJR03		GPGE12	
			Cv	Vg	Cv	Vg
LAYER	N	SPECIES				
7	81	ELYMINN				
	82	AGROTRA				
	83	SCHIPUR				
	84	CAREPRA				
	85	CARESPP	11			
	86	BROMCIL	00			
	87	POA PRA	06			
	88	ORYZASP				
	89	JUNCBAL	01			
	90	CAREGYN				
	91	AGROSCA	00			
8	92	MOSSSPP				

Group name: CMC8 Aw/Rose/Tall forbs

					Plots																									
			Avg	Avg	SPRING6		TWIL01		SLMC10		SLMC12		SLAL07		SCH006		LLBMI01		SLHE10		SLHE11		SLV007		WHTB005		SLHE01		WHTB001	
			% P	MC	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg
LAYER	N	SPECIES																												
1	1	POPUTRE	93.8	51.3	60		75		65		40		55				60		65		55		70		65		45		40	
	2	POPUBAL	50.0	08.1			05		15																10		10		20	
	3	PICEGLA	37.5	02.3									03				02												01	
	4	BETUPAP	31.3	02.1	01		01																20						05	
2	5	POPUTRE	12.5	00.1																					00				00	
4	6	SALISPP	18.8	00.5											02						00		05							
	7	ALNUCRI	12.5	00.4																			05						01	
	8	CORYCOR	12.5	00.2					01		02																			
	9	POPUTRE	06.3	00.6											10															
	10	SALIBEB	06.3	00.0																					00					
5	11	ROSAACI	0100	16.7	33		15		05		07		09		22		15		19		12		26		09		10		12	
	12	VIBUEDU	87.5	07.7	01		21				01		04		14		06		03		03		26		18		02		18	
	13	RUBUIDA	68.8	02.1	03		02				01		05		04		04		02		00		05		01				04	
	14	LONIINV	62.5	05.7			12						12		29		13		00		02				03				11	
	15	CORNSTO	56.3	03.2	01		06						00		05		07								04					
	16	SYMPOCC	56.3	01.2	03		04		03						01		00						02		01		00			
	17	AMELALN	50.0	01.9	01		02		01		01				17												05			
	18	LONIDIO	43.8	00.6					00		00						01				00				02		04		00	
	19	RIBEOXY	31.3	00.7			01										00								05				01	
	20	SPIRBET	18.8	01.0	07										00															
	21	ALNUCRI	18.8	00.9																										
	22	SALIBEB	18.8	00.8																										
	23	SYMPALB	18.8	00.6																										
	24	CORNCAN	12.5	01.8	24		04																							
	25	PRUNVIR	12.5	00.8																										
	26	RUBUPUB	12.5	00.4	04		03																							
	27	RIBELAC	12.5	00.4													01													
	28	LINNBOR	12.5	00.3	01		04																							
	29	SALISPP	12.5	00.1	01		01																							
	30	SHEPCAN	12.5	00.1																	00								00	
	31	POPUTRE	06.3	00.7																							11			
	32	POPUBAL	06.3	00.3																							04			
	33	CORYCOR	06.3	00.1																										
	34	VACCCAE	06.3	00.1																										
6	35	ARALNUD	0100	20.9	15		06		60		14		69		17		18		22		11		14		09		10		13	
	36	LATHOCH	0100	03.9	01		01		01		04		12		03		00		04		03		08		05		03		03	
	37	RUBUPUB	87.5	05.3					15		07		06		04		06		03		00		06		07		10		02	
	38	MAIACAN	87.5	04.0	02				30		00		03		00				00		03		03		02		07		03	
	39	PETAPAL	87.5	02.6			02		10		00		04		00		01				04		03		00		08		02	
	40	GALIBOR	87.5	02.5	01		01		02		05		03						00		06		02		01		05		01	

(CONTINUED)

Group name: CMC8 Aw/Rose/Tall forbs

			Avg	Avg	Plots																									
			% P	MC	SPRING6		TWIL01		SLMC10		SLMC12		SLAL07		SCHO06		LLBMI01		SLHE10		SLHE11		SLV007		WHTBO05		SLHE01		WHTBO01	
					Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg
LAYER	N	SPECIES																												
6	41	EPILANG	81.3	04.5	03		04				12		09				04		02		02		19		07		02		02	
	42	CORNCAN	81.3	03.4							00		01		04		07		04		03		06		02		04		06	
	43	FRAGVIR	81.3	02.5	03		02				00		03		01		00		03		09				03				03	
	44	ASTECIL	81.3	01.4	01				02				00		00		01		02		00		01		00				01	
	45	PYROASA	68.8	01.8	02		01						02		02		00		05		00		02		02		04		05	
	46	MERTPAN	68.8	01.2	01		01				01				01				00		00				00				08	
	47	VICIAME	68.8	00.8							01		01		01		00		03		00				01		00		00	
	48	MITENUD	62.5	01.6	01		03						01				06				00		06		01				01	
	49	LINNBOR	56.3	01.5									02						03		00		05		01		00		00	
	50	EQUIARV	50.0	02.0			01		02		06		06		06		05						00							
	51	VIOLCAN	50.0	00.6					01		00						01				01				00					
	52	GALITRI	50.0	00.3	01		01						00		00		00		00				00							
	53	ASTECON	31.3	01.5			02		10		08																			
	54	TARAOFF	25.0	00.3									00		00															
	55	ACTARUB	25.0	00.2													01								00					
	56	ASTESPP	12.5	00.1	01		01																							
	57	VIOLREN	12.5	00.1	01		01																							
	58	SMILRAC	12.5	00.1																										
	59	THALVEN	06.3	00.2																										
	60	DISPTRA	06.3	00.1					02																					
	61	TRIFREP	06.3	00.1	02																									
	62	HERALAN	06.3	00.1																										
	63	FRAGVES	06.3	00.0																			00							
	64	ORTHSEC	06.3	00.0																							00			
	65	VIOLADU	06.3	00.0																										
	66	TRIFHYB	06.3	00.0																										
	67	ACHIMIL	06.3	00.0																										
7	68	CALACAN	0100	07.2	03		03		02		08		21		10		08		21		12		07		09		04		02	
	69	ELYMINN	37.5	00.5							02										01		01							
	70	BROMCIL	18.8	00.1							00										01								00	
	71	AGROTRA	12.5	00.2					02												01									
	72	CARESPP	12.5	00.0									00										00							
	73	ORYZASP	06.3	00.0																										
8	74	MOSSSPP	12.5	00.4									01										06							
9	75	USNESPP	06.3	00.0																									00	

(CONTINUED)

Group name: CMC8 Aw/Rose/Tall forbs

			Plots					
			GPMA05		GPMA02		GPMA12	
			Cv	Vg	Cv	Vg	Cv	Vg
LAYER	N	SPECIES						
1	1	POPUTRE	45		45		35	
	2	POPUBAL	20		30		20	
	3	PICEGLA	20		05		05	
	4	BETUPAP			07			
2	5	POPUTRE						
4	6	SALISPP						
	7	ALNUCRI						
	8	CORYCOR						
	9	POPUTRE						
	10	SALIBEB						
5	11	ROSAACI	22		16		29	
	12	VIBUEDU	02				02	
	13	RUBUIDA						
	14	LONIINV	06		01			
	15	CORNSTO	04		02		19	
	16	SYMPOCC					03	
	17	AMELALN	01				01	
	18	LONIDIO						
	19	RIBEOXY					02	
	20	SPIRBET			08			
	21	ALNUCRI	05		05		04	
	22	SALIBEB	02		07		03	
	23	SYMPALB	03		05		01	
	24	CORNCAN						
	25	PRUNVIR	11				01	
	26	RUBUPUB						
	27	RIBELAC					04	
	28	LINNBOR						
	29	SALISPP						
	30	SHEPCAN						
	31	POPUTRE						
	32	POPUBAL						
	33	CORYCOR	02					
	34	VACCCAE			01			
6	35	ARALNUD	28		12		11	
	36	LATHOCH	03		04		02	
	37	RUBUPUB	04		05		06	
	38	MAIACAN	02		01		00	
	39	PETAPAL	01		01			
	40	GALIBOR	01		05		02	

(CONTINUED)

Group name: CMCB Aw/Rose/Tall forbs

			Plots					
			GPMA05		GPMA02		GPMA12	
			Cv	Vg	Cv	Vg	Cv	Vg
LAYER	N	SPECIES						
6	41	EPILANG			01			
	42	CORNCAN	02		08		02	
	43	FRAGVIR	02		06		00	
	44	ASTECIL	05		04		03	
	45	PYROASA						
	46	MERTPAN	00		02		01	
	47	VICIAME	01		00			
	48	MITENUD	01				03	
	49	LINNBOR	04		04			
	50	EQUIARV					00	
	51	VIOLCAN	02		00		02	
	52	GALITRI	00					
	53	ASTECON	02		00			
	54	TARAOFF	01		03			
	55	ACTARUB	01				00	
	56	ASTESPP						
	57	VIOLREN						
	58	SMILRAC	01					
	59	THALVEN					03	
	60	DISPTRA						
	61	TRIFREP						
	62	HERALAN					01	
	63	FRAGVES						
	64	ORTHSEC						
	65	VIOLADU					00	
	66	TRIFHYB			00			
	67	ACHIMIL			00			
7	68	CALACAN	01		00		01	
	69	ELYMINN	00		02		00	
	70	BROMCIL						
	71	AGROTRA						
	72	CARESPP						
	73	ORYZASP			00			
8	74	MOSSSPP						
9	75	USNESPP						

Group name: CMC8a Aw/Buffaloberry-Rose

			Avg	Avg	Plots	
					KAMIS09	
			% P	MC	Cv	Vg
LAYER	N	SPECIES				
1	1	POPUTRE	0100	75.0	75	
5	2	SHEPCAN	0100	26.0	26	
	3	CORNCAN	0100	16.0	16	
	4	VIBUEDU	0100	13.0	13	
	5	ROSAACI	0100	11.0	11	
	6	LINNBOR	0100	02.0	02	
	7	LONIINV	0100	02.0	02	
	8	RUBUPUB	0100	02.0	02	
	9	ARCTUVA	0100	01.0	01	
	10	LONIDIO	0100	01.0	01	
	11	SYMPOCC	0100	01.0	01	
	12	VACCCAE	0100	01.0	01	
6	13	EPILANG	0100	06.0	06	
	14	PETAVIT	0100	05.0	05	
	15	FRAGVIR	0100	03.0	03	
	16	LATHOCH	0100	02.0	02	
	17	PETAPAL	0100	02.0	02	
	18	MAIACAN	0100	01.0	01	
	19	ORTHSEC	0100	01.0	01	
	20	PYROASA	0100	01.0	01	
	21	VICIAME	0100	01.0	01	
7	22	ELYMINN	0100	04.0	04	
	23	CALACAN	0100	02.0	02	

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Group name: Aw/Rose-Saskatoon

---------------------------------------------------------
|                          |    |    |       Plots       |
|                          |    |    |-------------------|
|                          |Avg |Avg | SLV003   | GPMA03 |
|                          |----+----+---------+---------|
|                          |% P | MC | Cv | Vg | Cv | Vg |
|--------------------------+----+----+----+----+----+----|
|LAYER  N      SPECIES |    |    |    |    |    |    |
|1      1      POPUBAL |0100|43.5| 80 |    | 07 |    |
|       2      POPUTRE |0100|20.0| 05 |    | 35 |    |
|5      3      AMELALN |0100|25.3| 05 |    | 45 |    |
|       4      ROSAACI |0100|22.0| 06 |    | 38 |    |
|       5      CORNSTO |0100|06.8| 08 |    | 05 |    |
|       6      ALNUTEN |50.0|07.5|    |    | 15 |    |
|       7      SALIBEB |50.0|07.5|    |    | 15 |    |
|       8      SHEPCAN |50.0|07.5|    |    | 15 |    |
|       9      PRUNVIR |50.0|05.6|    |    | 11 |    |
|       10     POPUBAL |50.0|05.5| 11 |    |    |    |
|       11     SYMPALB |50.0|02.7|    |    | 05 |    |
|       12     VIBUEDU |50.0|02.5| 05 |    |    |    |
|       13     RUBUIDA |50.0|01.8| 03 |    |    |    |
|       14     LONIINV |50.0|00.8|    |    | 01 |    |
|       15     LONIDIO |50.0|00.3| 00 |    |    |    |
|       16     VACCCAE |50.0|00.3|    |    | 00 |    |
|       17     SPIRBET |50.0|00.3|    |    | 00 |    |
|       18     SYMPOCC |50.0|00.3| 00 |    |    |    |
|       19     POPUTRE |50.0|00.1| 00 |    |    |    |
|6      20     ASTECIL |0100|03.9| 00 |    | 07 |    |
|       21     RUBUPUB |0100|03.4| 03 |    | 03 |    |
|       22     MAIACAN |0100|03.2| 06 |    | 00 |    |
|       23     EQUIARV |0100|02.6| 01 |    | 03 |    |
|       24     GALIBOR |0100|02.2| 02 |    | 02 |    |
|       25     LATHOCH |50.0|04.1|    |    | 08 |    |
|       26     FRAGVES |50.0|03.9| 07 |    |    |    |
|       27     ARALNUD |50.0|02.9| 05 |    |    |    |
|       28     VICIAME |50.0|02.3|    |    | 04 |    |
|       29     MERTPAN |50.0|01.6| 03 |    |    |    |
|       30     ASTECON |50.0|01.5|    |    | 03 |    |
|       31     FRAGVIR |50.0|01.3|    |    | 02 |    |
|       32     CORNCAN |50.0|00.9| 01 |    |    |    |
|       33     PETAPAL |50.0|00.9| 01 |    |    |    |
|       34     ORTHSEC |50.0|00.6| 01 |    |    |    |
|       35     SMILRAC |50.0|00.5|    |    | 01 |    |
|       36     MITENUD |50.0|00.3| 00 |    |    |    |
|       37     SMILSTE |50.0|00.3| 00 |    |    |    |
|       38     ACHIMIL |50.0|00.1|    |    | 00 |    |
|       39     GALITRI |50.0|00.1| 00 |    |    |    |
|       40     THALVEN |50.0|00.0| 00 |    |    |    |
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(CONTINUED)
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RESOURCE INVENTORY, EDMONTON ALBERTA
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Group name: Aw/Rose-Saskatoon
-------------------------------------------------------
|                        |    |    |      Plots      |
|                        |    |    |-----------------|
|                        |Avg |Avg | SLV003  | GPMA03 |
|                        |----+----+---------+--------|
|                        |% P | MC | Cv | Vg | Cv | Vg |
|------------------------+----+----+----+----+----+----|
|LAYER  N      SPECIES   |    |    |    |    |    |    |
|7      41     ORYZASP   |50.0|00.9|    |    | 01 |    |
|       42     ELYMINN   |50.0|00.3|    |    | 00 |    |
|       43     CALACAN   |50.0|00.1| 00 |    |    |    |
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VEGETATION  REPORT                                                                                   08:50 Thursday, March 21, 1996  26
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RESOURCE INVENTORY, EDMONTON ALBERTA
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Group name: Aw-Pb/Rose/Strawberry

------------------------------------------------------------------------------
|                           |    |    |                Plots                  |
|                           |    |    |---------------------------------------|
|                           |Avg |Avg | SLWI05  | SLAU02  | LLBPA03 | LLBPA10 |
|                           |----+----+---------+---------+---------+---------|
|                           |% P | MC | Cv | Vg | Cv | Vg | Cv | Vg | Cv | Vg |
|---------------------------+----+----+----+----+----+----+----+----+----+----|
|LAYER  N       SPECIES |    |    |    |    |    |    |    |    |    |    |
|1      1       POPUTRE |0100|41.3| 40 |    |    |    | 15 |    | 10 |    |
|       2       POPUBAL |0100|27.5| 35 |    | 45 |    | 10 |    | 20 |    |
|       3       PICEGLA |75.0|03.8|    |    |    |    | 08 |    | 07 |    |
|       4       BETUPAP |25.0|02.5|    |    |    |    | 10 |    |    |    |
|4      5       SALIBEB |50.0|07.5| 05 |    |    |    | 25 |    |    |    |
|       6       SALISPP |50.0|05.3|    |    | 15 |    |    |    | 06 |    |
|       7       BETUGLA |25.0|00.0|    |    |    |    | 00 |    |    |    |
|5      8       ROSAACI |0125|14.0| 06 |    | 25 |    | 16 |    | 08 |    |
|       9       SYMPOCC |0100|06.2| 06 |    | 14 |    | 01 |    | 02 |    |
|       10      AMELALN |75.0|06.9| 01 |    | 25 |    | 01 |    |    |    |
|       11      CORNSTO |75.0|03.0| 00 |    |    |    | 05 |    | 06 |    |
|       12      RIBELAC |75.0|01.0|    |    |    |    | 03 |    | 00 |    |
|       13      RUBUIDA |50.0|01.5| 01 |    |    |    |    |    | 04 |    |
|       14      RIBETRI |50.0|00.2| 00 |    |    |    | 00 |    |    |    |
|       15      VIBUEDU |25.0|01.3|    |    |    |    | 05 |    |    |    |
|       16      LONIINV |25.0|01.3|    |    |    |    | 05 |    |    |    |
|       17      POPUTRE |25.0|00.5|    |    |    |    |    |    | 02 |    |
|       18      SHEPCAN |25.0|00.4|    |    |    |    |    |    | 01 |    |
|       19      POPUBAL |25.0|00.3| 01 |    |    |    |    |    |    |    |
|       20      PRUNVIR |25.0|00.3| 01 |    |    |    |    |    |    |    |
|6      21      FRAGVIR |0125|13.0| 03 |    | 00 |    | 17 |    | 30 |    |
|       22      TARAOFF |0125|02.7| 02 |    | 00 |    | 01 |    | 06 |    |
|       23      ASTECIL |0125|02.7| 02 |    | 00 |    | 03 |    | 04 |    |
|       24      MERTPAN |0125|01.7| 00 |    | 00 |    | 04 |    | 00 |    |
|       25      EQUIARV |0125|01.1| 01 |    | 01 |    | 00 |    | 00 |    |
|       26      GALIBOR |0100|02.4| 02 |    | 00 |    | 03 |    | 03 |    |
|       27      VICIAME |0100|01.8| 00 |    | 00 |    | 01 |    | 05 |    |
|       28      RUBUPUB |0100|01.8| 00 |    |    |    | 05 |    | 01 |    |
|       29      LATHOCH |75.0|02.5| 05 |    |    |    | 04 |    | 00 |    |
|       30      EPILANG |75.0|02.0|    |    | 02 |    | 03 |    | 02 |    |
|       31      THALVEN |75.0|01.4| 02 |    | 03 |    |    |    | 00 |    |
|       32      ACTARUB |75.0|00.8|    |    | 03 |    | 00 |    | 00 |    |
|       33      ACHIMIL |75.0|00.6|    |    | 00 |    | 00 |    | 01 |    |
|       34      LINNBOR |50.0|07.8|    |    |    |    | 13 |    | 17 |    |
|       35      PYROASA |50.0|01.0|    |    |    |    | 02 |    | 02 |    |
|       36      CORNCAN |50.0|00.9|    |    |    |    | 01 |    | 02 |    |
|       37      STELLON |50.0|00.2|    |    |    |    |    |    | 00 |    |
|       38      MAIACAN |50.0|00.1| 00 |    |    |    | 00 |    |    |    |
|       39      EQUISCI |25.0|00.8|    |    |    |    |    |    | 03 |    |
|       40      GALITRI |25.0|00.5|    |    |    |    |    |    | 02 |    |
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Group name: Aw-Pb/Rose/Strawberry
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|                        |    |    |                    Plots                           |
|                        |    |    |----------------------------------------------------|
|                        |Avg |Avg | SLWI05   | SLAU02   | LLBPA03 | LLBPA10 |
|                        |----+----+---------+---------+---------+---------|
|                        |% P | MC | Cv | Vg | Cv | Vg | Cv | Vg | Cv | Vg |
|------------------------+----+----+----+----+----+----+----+----+----+----|
|LAYER  N      SPECIES   |    |    |    |    |    |    |    |    |    |    |
|6      41     PETAPAL   |25.0|00.3|    |    |    |    | 01 |    |    |    |
|       42     GALETET   |25.0|00.3|    |    | 01 |    |    |    |    |    |
|       43     HERALAN   |25.0|00.3|    |    | 01 |    |    |    |    |    |
|       44     GEUMMAC   |25.0|00.1|    |    |    |    |    |    | 00 |    |
|       45     MITENUD   |25.0|00.1|    |    |    |    |    |    | 00 |    |
|       46     SOLICAN   |25.0|00.1|    |    |    |    | 00 |    |    |    |
|       47     TRIFREP   |25.0|00.1| 00 |    |    |    |    |    |    |    |
|       48     SCUTGAL   |25.0|00.1| 00 |    |    |    |    |    |    |    |
|       49     EQUISYL   |25.0|00.0|    |    |    |    |    |    | 00 |    |
|       50     GENTAMA   |25.0|00.0|    |    |    |    |    |    | 00 |    |
|       51     VIOLORB   |25.0|00.0|    |    |    |    |    |    | 00 |    |
|7      52     CALACAN   |0125|07.4| 01 |    | 10 |    | 01 |    | 16 |    |
|       53     AGROTRA   |0100|00.4|    |    | 00 |    | 00 |    | 01 |    |
|       54     SCHIPUR   |50.0|00.6|    |    | 02 |    |    |    | 00 |    |
|       55     AGROREP   |25.0|01.0| 04 |    |    |    |    |    |    |    |
|       56     ELYMINN   |25.0|00.6| 02 |    |    |    |    |    |    |    |
|       57     CAREPRA   |25.0|00.3| 01 |    |    |    |    |    |    |    |
|       58     CARECON   |25.0|00.1|    |    |    |    |    |    | 00 |    |
|       59     BROMCIL   |25.0|00.0|    |    |    |    | 00 |    |    |    |
|       60     CARESPP   |25.0|00.0|    |    | 00 |    |    |    |    |    |
|8      61     HYLOSPL   |25.0|00.9|    |    |    |    |    |    | 03 |    |
|9      62     PELTAPH   |25.0|00.1|    |    |    |    |    |    | 00 |    |
|       63     CLADRAN   |25.0|00.0|    |    |    |    |    |    | 00 |    |
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RESOURCE INVENTORY, EDMONTON ALBERTA
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Group name: Aw/Rose/Clover

----------------------------------------------
|                       |    |     |  Plots   |
|                       |    |     |----------|
|                       |Avg |Avg  |  GPMA15  |
|                       |----+-----+----------|
|                       |% P | MC  | Cv  | Vg |
|-----------------------+----+-----+----+-----|
|LAYER  N      SPECIES |    |     |    |      |
|1      1      POPUTRE |0100|30.0| 30  |      |
|       2      POPUBAL |0100|18.0| 18  |      |
|       3      PICEGLA |0100|03.0| 03  |      |
|2      4      POPUBAL |0100|07.0| 07  |      |
|       5      BETUPAP |0100|02.9| 02  |      |
|5      6      ROSAACI |0100|05.0| 05  |      |
|       7      RUBUIDA |0100|03.6| 03  |      |
|       8      SALIBEB |0100|03.0| 03  |      |
|       9      ALNUCRI |0100|02.0| 02  |      |
|       10     SYMPALB |0100|01.3| 01  |      |
|6      11     TRIFHYB |0100|18.1| 18  |      |
|       12     EQUIARV |0100|04.4| 04  |      |
|       13     TARAOFF |0100|04.4| 04  |      |
|       14     PETAPAL |0100|01.3| 01  |      |
|       15     THALVEN |0100|01.2| 01  |      |
|       16     FRAGVIR |0100|00.8| 00  |      |
|       17     ASTECON |0100|00.7| 00  |      |
|       18     ASTECIL |0100|00.5| 00  |      |
|       19     MAIACAN |0100|00.5| 00  |      |
|       20     ACHIMIL |0100|00.3| 00  |      |
|       21     MERTPAN |0100|00.2| 00  |      |
|7      22     POA PRA |0100|10.2| 10  |      |
|       23     FESTRUB |0100|04.8| 04  |      |
|       24     CALACAN |0100|01.7| 01  |      |
|       25     AGROREP |0100|00.6| 00  |      |
|       26     ELYMINN |0100|00.5| 00  |      |
|       27     JUNCBAL |0100|00.2| 00  |      |
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Group name: Aw/Alder-Willow-Rose

			Avg	Avg	Plots																									
					ATHLH09		SLJR06		SLRR02		SLV011		SLV008		SLV006		SLV002		SLJR05		SLR005		SLMC11		LLBB001		GPGE08		GPMA11	
			% P	MC	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg
LAYER	N	SPECIES																												
1	1	POPUTRE	0100	59.2	55		55		20		90		55		30		85		65		65		80		75		35		60	
	2	POPUBAL	46.2	03.3							02		05								15				00		05		15	
	3	PICEGLA	46.2	02.2	01		10								02						03						05		07	
	4	BETUPAP	23.1	01.7									02														15		05	
	5	PINUCON	07.7	00.2	02																									
	6	PICEMAR	07.7	00.1																									01	
2	7	POPUTRE	15.4	00.2																							01		00	
	8	BETUPAP	07.7	00.3																							04			
	9	PICEGLA	07.7	00.1																									01	
4	10	ALNUCRI	76.9	30.9	55		85		75		60		30		25		30		22				10		10					
	11	SALISPP	46.2	07.1	02		15		15		05						40						15							
	12	ALNUTEN	07.7	00.1																					01					
5	13	ROSAACI	92.3	11.0			02		12		15		11		23		13		16		07		15		06		16		02	
	14	RUBUIDA	69.2	05.1			02		14		01		14		09		05		15		01				02					
	15	CORNSTO	61.5	04.6					01				03		20		01				01				03		01		28	
	16	VIBUEDU	61.5	03.1					00						00		02		06		00		02		10		18			
	17	LONIINV	61.5	03.1			07		15						05		01		02		00				04		04			
	18	SYMPOCC	38.5	02.5							04						10		12		05				01					
	19	VACCMYR	30.8	00.7	02				02		02												02							
	20	RIBELAC	30.8	00.2			00		00										01		00									
	21	SHEPCAN	23.1	01.2					00				00																14	
	22	POPUTRE	23.1	00.7									03		04						02									
	23	SALIBEB	15.4	04.8																							20		43	
	24	ALNUCRI	15.4	03.3																							13		30	
	25	LONIDIO	15.4	00.4													02				02									
	26	LEDUGRO	15.4	00.3					01		03																			
	27	AMELALN	07.7	00.6																	07									
	28	APOCAND	07.7	00.2									02																	
	29	RIBETRI	07.7	00.1																	01									
	30	CORYCOR	07.7	00.1																									01	
	31	POPUBAL	07.7	00.1																	01									
	32	SYMPALB	07.7	00.1																									00	
	33	VACCVIT	07.7	00.0															00											
6	34	CORNCAN	92.3	10.4	08		22		03		23		03		12		03		12		00		10		26		08			
	35	PYROASA	84.6	03.8			01				17		03		02		01		07		02		04		01		05		04	
	36	RUBUPUB	84.6	03.7	02		01		01		08				03		02		01		05		05		10		05			
	37	ASTECIL	84.6	02.0	00				02		01		02		03		01		00		04				00		03		06	
	38	LINNBOR	76.9	10.8	12				04		02		28		17		01		19				45		02		06			
	39	MAIACAN	76.9	01.8	00				02		01		03		04		06		02		01				00		01			
	40	GALIBOR	76.9	01.4			01		00		01		01		02		03		02		01						03		01	

(CONTINUED)

Group name: Aw/Alder-Willow-Rose

					Plots																									
			Avg	Avg	ATHLH09		SLJR06		SLRR02		SLVO11		SLVO08		SLVO06		SLVO02		SLJR05		SLRO05		SLMC11		LLBB001		GPGE08		GPMA11	
			% P	MC	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg
LAYER	N	SPECIES																												
6	41	MITENUD	69.2	04.1			03		09				00		03		01		22		03				09				01	
	42	PETAPAL	69.2	02.5			08				02		03				03		05		00				05		02		00	
	43	LATHOCH	69.2	02.2							02		01		09		04		00		01				02		03		01	
	44	TARAOFF	69.2	00.8			01		00		00		03				00		01						00		00		01	
	45	GALITRI	69.2	00.6			00		00		00		01				01		00		00				02				00	
	46	FRAGVIR	61.5	02.3	01		01		02										05		03				05		04		06	
	47	MERTPAN	61.5	01.0			01		00						00		00		02		02				02		03			
	48	ARALNUD	53.8	04.4					00				01		07		04				00		35				07			
	49	EQUIARV	53.8	01.5			02		02						01		04				02		05						02	
	50	EPILANG	38.5	02.2			04		01						10												10		00	
	51	ORTHSEC	38.5	00.6									00		03		03		00						00					
	52	FRAGVES	30.8	01.3							03		05		04		03													
	53	ASTECON	30.8	00.4											02		01										00		00	
	54	VICIAME	30.8	00.2					00				00								00						01			
	55	VIOLCAN	23.1	00.4			00														03						00			
	56	TRIFREP	23.1	00.3									04						00						00					
	57	ACTARUB	23.1	00.1															00		00								00	
	58	EQUISCI	15.4	00.2					00								01													
	59	VIOLREN	15.4	00.1			00												00											
	60	MELALIN	07.7	00.2	03																									
	61	THALVEN	07.7	00.2																	02									
	62	ACHIMIL	07.7	00.1																									01	
	63	HIERUMB	07.7	00.0																					00					
	64	LILIPHI	07.7	00.0																					00					
	65	GEUMMAC	07.7	00.0																	00									
	66	DISPTRA	07.7	00.0									00																	
	67	GOODOBL	07.7	00.0	00																									
	68	SMILRAC	07.7	00.0																									00	
	69	HERALAN	07.7	00.0																	00									
7	70	CALACAN	92.3	04.6	01		19		02		08		03		00		00		02		01		05		10		03			
	71	ELYMINN	38.5	00.4	00				00				01		02		00													
	72	POA PRA	30.8	00.6	00				01				03						03											
	73	CARESPP	23.1	01.0					05				04				02													
	74	SCHIPUR	23.1	00.1	00																00						00			
	75	ORYZASP	15.4	00.3					01														02							
	76	CAREPRA	07.7	00.0																	00									
	77	BROMCIL	07.7	00.0																					00					
8	78	MOSSSPP	30.8	00.5	02				02		00		01																	

RESOURCE INVENTORY, EDMONTON ALBERTA

Group name: Aw/Willow

					Plots							
			Avg	Avg	SLMC04		ATHFM10		SLAL06		SLMC02	
LAYER	N	SPECIES	% P	MC	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg
1	1	POPUTRE	0100	53.3	40		68		60		45	
	2	BETUPAP	50.0	05.0	15						05	
	3	PICEGLA	25.0	02.5					10			
	4	POPUBAL	25.0	01.3			05					
4	5	SALISPP	75.0	17.5			15		20		35	
	6	SALISCO	25.0	08.8	35							
	7	CORYCOR	25.0	01.8	07							
5	8	ROSAACI	0100	13.2	13		15		12		11	
	9	VIBUEDU	75.0	04.2	12		00		03			
	10	RUBUIDA	75.0	04.0	11				02		02	
	11	PRUNPEN	75.0	03.8	04				09		01	
	12	AMELALN	50.0	04.4	06		11					
	13	SYMPOCC	50.0	01.3	02				03			
	14	SHEPCAN	50.0	00.7			02		00			
	15	VACCMYR	50.0	00.7			02				00	
	16	LONIDIO	50.0	00.4			00		00			
	17	ARCTUVA	25.0	01.1							04	
	18	LONIINV	25.0	00.4	01							
	19	LEDUGRO	25.0	00.1			00					
	20	VACCVIT	25.0	00.0			00					
6	21	CORNCAN	0100	12.6	02		09		08		30	
	22	EPILANG	0100	11.2	03		04		32		04	
	23	RUBUPUB	0100	07.1	12		03		02		10	
	24	MAIACAN	0100	05.6	03		03		11		03	
	25	LATHOCH	0100	05.1	01		00		10		08	
	26	LINNBOR	0100	05.0	01		05		01		11	
	27	PYROASA	0100	04.4	08		00		05		05	
	28	PETAPAL	0100	02.4	06		02		01		00	
	29	VICIAME	0100	01.9	00		00		06		00	
	30	GALIBOR	0100	01.2	01		00		01		00	
	31	ACHIMIL	0100	00.3	00		00		00		00	
	32	ARALNUD	75.0	09.0	04				14		18	
	33	EQUIARV	75.0	02.3			00		01		07	
	34	FRAGVIR	75.0	01.8			01		04		01	
	35	MERTPAN	75.0	01.4	03		02		00			
	36	ASTECIL	75.0	01.4	02		01		01			
	37	MITENUD	75.0	00.7	02		00		00			
	38	CAMPROT	50.0	00.0					00		00	
	39	EQUISYL	25.0	02.1	08							
	40	TARAOFF	25.0	01.0					04			

(CONTINUED)

Group name: Aw/Willow

			Avg	Avg	Plots							
					SLMC04		ATHFM10		SLAL06		SLMC02	
			% P	MC	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg
LAYER	N	SPECIES										
6	41	ASTECON	25.0	00.9	03							
	42	MELALIN	25.0	00.5			02					
	43	VIOLORB	25.0	00.3			01					
	44	ORTHSEC	25.0	00.0			00					
7	45	CALACAN	0100	07.3	13		00		12		02	
	46	ELYMINN	75.0	04.6			02		05		10	
	47	ORYZASP	50.0	01.1			01				03	
	48	CARESPP	25.0	03.6					14			
	49	AGROTRA	25.0	01.3					05			
	50	SCHIPUR	25.0	00.5	01							
	51	BROMCIL	25.0	00.0	00							

Group name: CMC14 Aw-Pb/R.osier dogwood-Ros

			Avg	Avg	Plots							
					SLH005		GPMA13		GPMA09		GPMA10	
			% P	MC	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg
LAYER	N	SPECIES										
1	1	POPUTRE	0100	43.8	70		40		25		40	
	2	PICEGLA	0100	06.0	10		08		04		02	
	3	POPUBAL	75.0	16.3			20		20		25	
	4	BETUPAP	50.0	03.3			06		07			
2	5	POPUTRE	50.0	00.6					00		01	
5	6	CORNSTO	0100	28.3	40		24		19		29	
	7	ROSAACI	75.0	09.7			09		02		28	
	8	VIBUEDU	75.0	02.2	05				03		00	
	9	SHEPCAN	50.0	04.8			13				06	
	10	ALNUTEN	50.0	02.8			04				07	
	11	SALIBEB	50.0	02.3			02				07	
	12	SYMPALB	50.0	01.9					03		04	
	13	ALNUCRI	50.0	01.6					01		05	
	14	RIBELAC	50.0	01.2			00		04			
	15	RUBUPUB	25.0	01.7					06			
	16	VACCCAE	25.0	01.3	05							
	17	LONIDIO	25.0	00.8	03							
	18	RUBUIDA	25.0	00.1					00			
6	19	LATHOCH	0125	03.9	05		02		01		06	
	20	PYROASA	0100	04.4	15		00		00		01	
	21	GALIBOR	0100	04.4	10		02		01		03	
	22	FRAGVIR	0100	03.6	05		04		02		03	
	23	MERTPAN	0100	03.4	10		01		00		01	
	24	LINNBOR	0100	02.2	05		01		00		01	
	25	EQUIARV	75.0	07.4	25		01		03			
	26	ARALNUD	75.0	03.8			00		10		04	
	27	MITENUD	75.0	03.7	10				04		00	
	28	MAIACAN	75.0	02.6	10		00				00	
	29	VICIAME	75.0	00.8			00		00		02	
	30	PETAPAL	50.0	04.1	15						01	
	31	RUBUPUB	50.0	02.9			05				06	
	32	EPILANG	50.0	01.6	05						01	
	33	ASTECIL	50.0	01.3					03		01	
	34	ASTECON	50.0	01.1			02		02			
	35	VIOLCAN	50.0	00.4			01		00			
	36	ACTARUB	50.0	00.3					00		00	
	37	SMILRAC	50.0	00.3			00				00	
	38	ATHYFIL	25.0	02.9					11			
	39	ROSAACI	25.0	02.5	10							
	40	CORNCAN	25.0	01.6							06	

(CONTINUED)

Group name: CMC14 Aw-Pb/R.osier dogwood-Ros

			Avg	Avg	Plots							
					SLH005		GPMA13		GPMA09		GPMA10	
			% P	MC	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg
LAYER	N	SPECIES										
6	41	THALVEN	25.0	00.8					03			
	42	TARAOFF	25.0	00.7			02					
	43	GALITRI	25.0	00.4					01			
	44	HERALAN	25.0	00.4					01			
	45	VIOLADU	25.0	00.2							00	
	46	ACHIMIL	25.0	00.1							00	
	47	DELPGLA	25.0	00.1					00			
7	48	CALACAN	0100	05.3	10		01		02		07	
	49	ELYMINN	50.0	00.2			00				00	
	50	CARESPP	25.0	01.3	05							
	51	BROMCAR	25.0	00.0					00			
8	52	MOSSSPP	25.0	07.5	30							

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VEGETATION  REPORT                                                                                  09:08 Friday, September 6, 1996   1
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RESOURCE INVENTORY, EDMONTON ALBERTA
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Group name: Aw/Horsetail
---------------------------------------------
|                         |    |    | Plots  |
|                         |    |    |--------|
|                         |Avg |Avg | GPGE14 |
|                         |----+----+--------|
|                         |% P | MC | Cv | Vg |
|-------------------------+----+----+----+----|
|LAYER  N      SPECIES |    |    |    |    |
|1      1      POPUTRE |0100|12.0| 12 |    |
|       2      PICEGLA |0100|07.0| 07 |    |
|       3      BETUPAP |0100|02.0| 02 |    |
|5      4      RUBUIDA |0100|02.9| 02 |    |
|       5      RIBEHUD |0100|00.7| 00 |    |
|6      6      HERALAN |0100|30.1| 30 |    |
|       7      EQUIARV |0100|24.6| 24 |    |
|       8      MERTPAN |0100|17.6| 17 |    |
|       9      DELPGLA |0100|12.9| 12 |    |
|       10     SOLICAN |0100|08.0| 08 |    |
|       11     VICIAME |0100|04.3| 04 |    |
|       12     LATHOCH |0100|02.1| 02 |    |
|       13     EPILANG |0100|01.1| 01 |    |
|       14     GALITRI |0100|01.0| 01 |    |
|       15     PETAPAL |0100|01.0| 01 |    |
|       16     TARAOFF |0100|01.0| 01 |    |
|       17     RANUACR |0100|00.6| 00 |    |
|       18     VIOLCAN |0100|00.6| 00 |    |
|       19     THALVEN |0100|00.3| 00 |    |
|7      20     CALACAN |0100|46.9| 46 |    |
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(CMD)

CENTRAL MIXEDWOOD SUBREGION

MIXEDWOOD AND CONIFER

COMMUNITY TYPES

VEGETATION SPECIES LIST

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VEGETATION  REPORT                                                              11:29 Tuesday, March 12, 1996  11
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RESOURCE INVENTORY, EDMONTON ALBERTA
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Group name: Jack pine/Alder
------------------------------------------------
|                          |    |    |   Plots   |
|                          |    |    |-----------|
|                          |Avg |Avg | SLV010    |
|                          |----+----+-----------|
|                          |% P | MC | Cv | Vg   |
|--------------------------+----+----+----+------|
|LAYER  N      SPECIES     |    |    |           |
|1      1      PINUBAN     |0100|45.0| 45 |      |
|4      2      ALNUCRI     |0100|41.5| 41 |      |
|5      3      VACCMYR     |0100|13.0| 13 |      |
|       4      ROSAACI     |0100|05.1| 05 |      |
|       5      RUBUIDA     |0100|00.7| 00 |      |
|       6      VACCVIT     |0100|00.5| 00 |      |
|       7      ARCTUVA     |0100|00.1| 00 |      |
|6      8      LINNBOR     |0100|04.2| 04 |      |
|       9      MAIACAN     |0100|03.8| 03 |      |
|       10     ARALNUD     |0100|03.0| 03 |      |
|       11     GALIBOR     |0100|02.6| 02 |      |
|       12     SOLIMIS     |0100|01.8| 01 |      |
|       13     EPILANG     |0100|00.5| 00 |      |
|       14     CORNCAN     |0100|00.3| 00 |      |
|       15     VICIAME     |0100|00.3| 00 |      |
|7      16     ORYZPUN     |0100|05.0| 05 |      |
|       17     CARESPP     |0100|03.5| 03 |      |
|       18     ELYMINN     |0100|03.5| 03 |      |
|       19     CALACAN     |0100|01.5| 01 |      |
|8      20     MOSSSPP     |0100|06.8| 06 |      |
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Group name: Jack pine/Bearberry

					Plots			
			Avg	Avg	SLJR02		LLBSM09	
			% P	MC	Cv	Vg	Cv	Vg
LAYER	N	SPECIES						
1	1	PINUBAN	0100	37.5	30		45	
	2	POPUTRE	50.0	00.5	01			
5	3	ARCTUVA	0100	17.8	16		19	
	4	VACCVIT	50.0	05.6			11	
	5	VACCMYR	50.0	01.8			03	
	6	POPUTRE	50.0	00.3	00			
	7	POPUBAL	50.0	00.1	00			
	8	AMELALN	50.0	00.0			00	
	9	ROSAACI	50.0	00.0			00	
6	10	MAIACAN	0100	01.0	00		01	
	11	HEDYALP	50.0	01.5	03			
	12	LINNBOR	50.0	01.0			02	
	13	ERIGPHI	50.0	00.9	01			
	14	SOLICAN	50.0	00.6	01			
	15	TRIFREP	50.0	00.3	00			
	16	ASTELAE	50.0	00.3			00	
	17	GALIBOR	50.0	00.3	00			
	18	DODECON	50.0	00.2	00			
	19	FRAGVIR	50.0	00.2			00	
	20	COMAUMB	50.0	00.1			00	
	21	ANEMPAT	50.0	00.1	00			
	22	ANEMMUL	50.0	00.0			00	
7	23	CARESPP	0100	05.7	11		00	
	24	ORYZPUN	0100	01.9	01		02	
	25	ELYMINN	50.0	01.8			03	
	26	AGROTRA	50.0	01.4	02			
	27	FESTIDA	50.0	00.6	01			
	28	POA PRA	50.0	00.1	00			
	29	KOELMAC	50.0	00.0			00	
8	30	PLEUSCH	50.0	17.5			35	
	31	MOSSSPP	50.0	00.3	00			
9	32	CLADRAN	0100	16.5	03		30	
	33	PELTAPH	50.0	02.3			04	

Group name: Aw-Pj/Bearberry/Lichen

					Plots			
			Avg	Avg	TIZZ03		TIZZ09	
			% P	MC	Cv	Vg	Cv	Vg
LAYER	N	SPECIES						
1	1	POPUTRE	0100	20.0	15		25	
	2	PINUBAN	0100	15.0	10		20	
	3	PICEGLA	50.0	01.5	03			
5	4	ARCTUVA	0100	07.3	02		12	
	5	POPUTRE	0100	05.0	05		05	
	6	VACCMYR	50.0	07.8			15	
	7	PICEGLA	50.0	05.0	10			
	8	VACCVIT	50.0	04.2			08	
	9	PINUBAN	50.0	02.5	05			
	10	ROSAACI	50.0	00.5			01	
	11	AMELALN	50.0	00.3			00	
6	12	COMAUMB	0100	00.8	00		01	
	13	EQUISCI	50.0	01.7	03			
	14	MAIACAN	50.0	01.6			03	
	15	SOLIMIS	50.0	00.5	01			
	16	GALIBOR	50.0	00.3			00	
	17	SAXITRI	50.0	00.3			00	
	18	ASTECIL	50.0	00.2			00	
	19	LINNBOR	50.0	00.2			00	
	20	ANEMMUL	50.0	00.1			00	
	21	ACHIMIL	50.0	00.0	00			
7	22	CARESPP	0100	03.7	07		00	
	23	CALARUB	0100	00.5	00		00	
	24	POA PAL	50.0	03.5	07			
	25	ORYZPUN	50.0	02.3			04	
	26	AGROTRA	50.0	02.3	04			
	27	KOELMAC	50.0	00.4	00			
	28	ORYZASP	50.0	00.1			00	
8	29	MOSSSPP	50.0	05.8			11	
	30	LYCOSPP	50.0	04.3			08	
9	31	LICHEN	0100	48.9	81		16	

VEGETATION REPORT

RESOURCE INVENTORY, EDMONTON ALBERTA

10:43 Friday, March 10, 2000 1

Group name: Balsam fir-Sw/Moss

			Avg	Avg	Plots	
					ATHLHO8	
			% P	MC	Cv	Vg
LAYER	N	SPECIES				
1	1	ABIEBAL	0100	40.0	40	
	2	PICEGLA	0100	25.0	25	
	3	BETUPAP	0100	01.0	01	
	4	POPUTRE	0100	01.0	01	
5	5	ABIEBAL	0100	09.0	09	
	6	PICEGLA	0100	07.0	07	
	7	RIBETRI	0100	00.4	00	
6	8	CORNCAN	0100	10.4	10	
	9	EQUISYL	0100	06.0	06	
	10	LINNBOR	0100	04.4	04	
	11	PETAPAL	0100	01.2	01	
	12	ORTHSEC	0100	00.8	00	
	13	MELALIN	0100	00.6	00	
8	14	PLEUSCH	0100	50.8	50	
	15	HYLOSPL	0100	37.0	37	
	16	LYCOCLA	0100	03.0	03	
9	17	GYMNDRY	0100	01.6	01	
	18	PELTAPH	0100	00.1	00	

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RESOURCE INVENTORY, EDMONTON ALBERTA
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Group name: Sw/Moss
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|                    |    |    |                           Plots                           |
|                    |    |    |-----------------------------------------------------------|
|                    |Avg |Avg | NBRY07  | LLBRE02 | SLAL02  | GPGE07  | GPGE05  | GPGE03  |
|                    |----+----+---------+---------+---------+---------+---------+---------|
|                    |% P | MC | Cv | Vg | Cv | Vg | Cv | Vg | Cv | Vg | Cv | Vg | Cv | Vg |
|--------------------+----+----+----+----+----+----+----+----+----+----+----+----+----+----|
|LAYER   N   SPECIES |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|1       1   PICEGLA |0100|43.3| 50 |    | 65 |    | 70 |    | 20 |    | 20 |    | 35 |    |
|        2   BETUPAP |66.7|03.7|    |    | 10 |    |    |    | 02 |    | 05 |    | 05 |    |
|        3   POPUTRE |50.0|04.3|    |    |    |    |    |    | 12 |    | 01 |    | 13 |    |
|2       4   POPUTRE |33.3|00.8|    |    |    |    |    |    | 03 |    | 01 |    |    |    |
|        5   PICEGLA |16.7|00.3|    |    |    |    |    |    | 02 |    |    |    |    |    |
|4       6   SALIBEB |16.7|06.7| 40 |    |    |    |    |    |    |    |    |    |    |    |
|        7   ALNUTEN |16.7|00.7| 04 |    |    |    |    |    |    |    |    |    |    |    |
|5       8   ROSAACI |83.3|04.7| 04 |    | 00 |    |    |    | 06 |    | 10 |    | 06 |    |
|        9   VIBUEDU |66.7|01.4| 02 |    |    |    |    |    | 03 |    | 01 |    | 01 |    |
|       10   VACCCAE |50.0|01.2|    |    |    |    |    |    | 05 |    | 00 |    | 01 |    |
|       11   CORNSTO |33.3|01.8| 01 |    |    |    |    |    |    |    |    |    | 09 |    |
|       12   AMELALN |33.3|00.9|    |    |    |    |    |    | 00 |    | 04 |    |    |    |
|       13   LONIINV |33.3|00.8|    |    |    |    | 02 |    | 02 |    |    |    |    |    |
|       14   VACCVIT |16.7|02.1|    |    |    |    |    |    | 12 |    |    |    |    |    |
|       15   SHEPCAN |16.7|01.8|    |    |    |    |    |    | 10 |    |    |    |    |    |
|       16   SALIBEB |16.7|00.3|    |    |    |    |    |    |    |    |    |    | 02 |    |
|       17   RIBETRI |16.7|00.1| 00 |    |    |    |    |    |    |    |    |    |    |    |
|       18   POPUTRE |16.7|00.0|    |    | 00 |    |    |    |    |    |    |    |    |    |
|6      19   CORNCAN |83.3|07.7| 06 |    | 02 |    |    |    | 08 |    | 14 |    | 13 |    |
|       20   PETAPAL |83.3|02.5|    |    | 02 |    | 01 |    | 04 |    | 05 |    | 01 |    |
|       21   LINNBOR |66.7|08.0| 03 |    | 12 |    |    |    | 14 |    | 18 |    |    |    |
|       22   MAIACAN |66.7|01.0|    |    | 00 |    |    |    | 00 |    | 04 |    | 01 |    |
|       23   MITENUD |50.0|01.6| 05 |    |    |    | 01 |    |    |    |    |    | 03 |    |
|       24   RUBUPUB |50.0|01.0| 02 |    |    |    |    |    | 00 |    | 03 |    |    |    |
|       25   PYROASA |50.0|00.3| 00 |    |    |    |    |    | 00 |    |    |    | 00 |    |
|       26   EPILANG |33.3|01.1|    |    |    |    |    |    | 02 |    |    |    | 03 |    |
|       27   EQUIARV |33.3|00.8|    |    |    |    | 01 |    | 03 |    |    |    |    |    |
|       28   LATHOCH |33.3|00.6|    |    | 02 |    |    |    |    |    | 00 |    |    |    |
|       29   GALIBOR |33.3|00.4|    |    | 00 |    |    |    |    |    |    |    | 02 |    |
|       30   FRAGVIR |33.3|00.3|    |    | 00 |    |    |    |    |    |    |    | 01 |    |
|       31   ARALNUD |33.3|00.3|    |    |    |    |    |    | 00 |    | 00 |    |    |    |
|       32   GALITRI |33.3|00.1|    |    |    |    |    |    | 00 |    | 00 |    |    |    |
|       33   ACHIMIL |33.3|00.1|    |    |    |    |    |    | 00 |    |    |    | 00 |    |
|       34   PETASPP |16.7|01.4|    |    |    |    | 08 |    |    |    |    |    |    |    |
|       35   EQUISCI |16.7|00.9|    |    |    |    | 05 |    |    |    |    |    |    |    |
|       36   GEOCLIV |16.7|00.3| 01 |    |    |    |    |    |    |    |    |    |    |    |
|       37   EQUISYL |16.7|00.3|    |    |    |    |    |    | 01 |    |    |    |    |    |
|       38   ASTECIL |16.7|00.1|    |    | 00 |    |    |    |    |    |    |    |    |    |
|       39   ASTECON |16.7|00.1|    |    |    |    |    |    | 00 |    |    |    |    |    |
|       40   TRIFREP |16.7|00.1|    |    |    |    | 00 |    |    |    |    |    |    |    |
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RESOURCE INVENTORY, EDMONTON ALBERTA
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Group name: Sw/Moss
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|                        |     |     |                                 Plots                                 |
|                        |     |     |-----------------------------------------------------------------------|
|                        |Avg  |Avg  | NBRY07    | LLBRE02   | SLAL02    | GPGE07    | GPGE05    | GPGE03    |
|                        |-----+-----+-----------+-----------+-----------+-----------+-----------+-----------|
|                        |% P  | MC  | Cv  | Vg  | Cv  | Vg  | Cv  | Vg  | Cv  | Vg  | Cv  | Vg  | Cv  | Vg  |
|------------------------+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----|
|LAYER    N      SPECIES |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|6        41     VIOLCAN |16.7 |00.0 |     |     |     |     |     |     |     |     |     |     | 00  |     |
|         42     MELALIN |16.7 |00.0 |     |     | 00  |     |     |     |     |     |     |     |     |     |
|         43     TARAOFF |16.7 |00.0 |     |     |     |     | 00  |     |     |     |     |     |     |     |
|7        44     CALACAN |83.3 |00.9 | 00  |     | 00  |     |     |     | 01  |     | 00  |     | 02  |     |
|         45     SCHIPUR |33.3 |00.2 |     |     | 00  |     |     |     | 00  |     |     |     |     |     |
|         46     CARESPP |16.7 |00.9 |     |     |     |     | 05  |     |     |     |     |     |     |     |
|         47     ELYMINN |16.7 |00.0 |     |     |     |     |     |     |     |     |     |     | 00  |     |
|8        48     HYLOSPL |33.3 |14.8 | 49  |     | 40  |     |     |     |     |     |     |     |     |     |
|         49     PLEUSCH |16.7 |01.2 |     |     | 07  |     |     |     |     |     |     |     |     |     |
|         50     MOSSSPP |16.7 |01.0 |     |     |     |     | 06  |     |     |     |     |     |     |     |
|9        51     CLADRAN |16.7 |00.3 |     |     | 01  |     |     |     |     |     |     |     |     |     |
|         52     PELTAPH |16.7 |00.2 |     |     | 01  |     |     |     |     |     |     |     |     |     |
|         53     PELLTAP |16.7 |     |     |     |     |     |     |     |     |     |     |     |     |     |
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Group name: White spruce/Creeping red fescu

			Avg	Avg	Plots	
					SLBE04	
			% P	MC	Cv	Vg
LAYER	N	SPECIES				
1	1	PICEGLA	0100	35.0	35	
	2	POPUBAL	0100	01.0	01	
	3	POPUTRE	0100	01.0	01	
4	4	POPUTRE	0100	00.7	00	
	5	SALISPP	0100	00.5	00	
	6	POPUBAL	0100	00.2	00	
5	7	ROSAACI	0100	10.3	10	
	8	SYMPOCC	0100	04.5	04	
	9	RUBUIDA	0100	00.5	00	
6	10	FRAGVIR	0100	10.5	10	
	11	TRIFHYB	0100	05.2	05	
	12	TARAOFF	0100	05.0	05	
	13	ASTECIL	0100	03.3	03	
	14	VICIAME	0100	01.3	01	
	15	EPILANG	0100	01.1	01	
	16	GALIBOR	0100	01.0	01	
	17	ACHIMIL	0100	00.9	00	
	18	PETAPAL	0100	00.4	00	
	19	ANTEROS	0100	00.3	00	
	20	EQUIARV	0100	00.3	00	
	21	LATHOCH	0100	00.3	00	
	22	SOLIMIS	0100	00.1	00	
7	23	FESTRUB	0100	28.5	28	
	24	ELYMINN	0100	12.3	12	
	25	AGROTRA	0100	11.0	11	
	26	CARESPP	0100	02.8	02	
	27	PHLEPRA	0100	01.5	01	
	28	POA PRA	0100	01.5	01	
	29	BROMCIL	0100	00.5	00	
8	30	MOSSSPP	0100	07.5	07	

VEGETATION REPORT

RESOURCE INVENTORY, EDMONTON ALBERTA

Group name: Aw-Sw/Rose/Low forb

			Avg	Avg	Plots									
					NBRY06		SLMC01		SLMC02		GPGE11		GPGE04	
LAYER	N	SPECIES	% P	MC	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg
1	1	POPUTRE	0100	33.2	40		60		20		25		21	
	2	PICEGLA	80.0	28.6			40		80		14		09	
	3	BETUPAP	40.0	04.6							15		08	
	4	POPUBAL	40.0	03.2							06		10	
2	5	PICEGLA	60.0	12.3	55						01		05	
	6	POPUTRE	40.0	01.3							05		01	
	7	BETUPAP	20.0	00.4									02	
5	8	ROSAACI	0100	09.9	11		10		01		19		06	
	9	RIBELAC	80.0	00.2	00		00		00				00	
	10	VIBUEDU	60.0	05.0	05						11		08	
	11	AMELALN	60.0	02.7			06		00				07	
	12	SHEPCAN	60.0	02.3	02						07		01	
	13	LONIDIO	60.0	00.2	00				00		00			
	14	LONIINV	40.0	04.0							04		15	
	15	SALIBEB	40.0	01.8							05		04	
	16	SYMPOCC	40.0	01.6			03		04					
	17	CORNSTO	40.0	01.6	05								02	
	18	ALNUTEN	20.0	01.0									05	
	19	POPUTRE	20.0	01.0			05							
	20	VACCCAE	20.0	01.0							04			
	21	RUBUIDA	20.0	00.3									01	
	22	VACCVIT	20.0	00.1							00			
	23	POPUBAL	20.0	00.1			00							
6	24	CORNCAN	0100	03.4	02		02		00		06		06	
	25	LINNBOR	80.0	02.5	03				01		05		01	
	26	LATHOCH	80.0	02.5			03		01		06		01	
	27	FRAGVIR	80.0	02.4			02		03		03		02	
	28	MAIACAN	80.0	01.9			01		04		02		01	
	29	GALIBOR	80.0	01.9			03		01		03		01	
	30	PETAPAL	80.0	01.0			02		00		00		01	
	31	MITENUD	80.0	01.0	01		00		00				02	
	32	EPILANG	60.0	03.4			06				04		06	
	33	RUBUPUB	60.0	01.9	01						04		04	
	34	PYROASA	60.0	00.7	03				00				00	
	35	ASTECON	40.0	02.6			09		04					
	36	RUBUACA	40.0	01.9			01		08					
	37	ASTECIL	40.0	00.7							01		02	
	38	THALVEN	40.0	00.7			01		02					
	39	ACHIMIL	40.0	00.3			00		00					
	40	EQUIARV	40.0	00.2			00		00					

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RESOURCE INVENTORY, EDMONTON ALBERTA
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Group name: Aw-Sw/Rose/Low forb
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|                       |    |    |                      Plots                      |
|                       |    |    |-------------------------------------------------|
|                       |Avg |Avg | NBRY06  | SLMC01  | SLMC02  | GPGE11  | GPGE04  |
|                       |----+----+---------+---------+---------+---------+---------|
|                       |% P | MC | Cv | Vg | Cv | Vg | Cv | Vg | Cv | Vg | Cv | Vg |
|-----------------------+----+----+----+----+----+----+----+----+----+----+----+----|
|LAYER  N      SPECIES  |    |    |    |    |    |    |    |    |    |    |    |    |
|6      41     MERTPAN  |40.0|00.2|    |    |    |    |    |    | 00 |    | 00 |    |
|       42     VIOLCAN  |40.0|00.1| 00 |    |    |    |    |    |    |    | 00 |    |
|       43     ARCTUVA  |20.0|00.4|    |    |    |    |    |    | 01 |    |    |    |
|       44     ARALNUD  |20.0|00.3|    |    |    |    |    |    | 01 |    |    |    |
|       45     SMILSTE  |20.0|00.1|    |    | 00 |    |    |    |    |    |    |    |
|       46     SOLICAN  |20.0|00.1|    |    |    |    |    |    | 00 |    |    |    |
|       47     GALITRI  |20.0|00.1|    |    |    |    |    |    |    |    | 00 |    |
|       48     ORTHSEC  |20.0|00.1| 00 |    |    |    |    |    |    |    |    |    |
|       49     PRYOASA  |20.0|00.1|    |    |    |    |    |    | 00 |    |    |    |
|       50     VICIAME  |20.0|00.0|    |    |    |    |    |    | 00 |    |    |    |
|       51     CERAARV  |20.0|00.0|    |    | 00 |    |    |    |    |    |    |    |
|       52     TARAOFF  |20.0|00.0|    |    | 00 |    |    |    |    |    |    |    |
|7      53     ELYMINN  |80.0|04.6|    |    | 10 |    | 09 |    | 01 |    | 01 |    |
|       54     CALACAN  |60.0|02.8|    |    | 02 |    |    |    | 09 |    | 01 |    |
|       55     SCHIPUR  |40.0|00.6|    |    | 01 |    | 01 |    |    |    |    |    |
|       56     CAREPRA  |20.0|00.0|    |    |    |    |    |    | 00 |    |    |    |
|8      57     MOSSSPP  |40.0|01.8|    |    | 04 |    | 05 |    |    |    |    |    |
|       58     HYLOSPL  |20.0|01.5| 07 |    |    |    |    |    |    |    |    |    |
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RESOURCE INVENTORY, EDMONTON ALBERTA
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Group name: Aw-Sw/Labrador tea/Moss
----------------------------------------------
|                         |    |    | Plots   |
|                         |    |    |---------|
|                         |Avg |Avg | ATHLH04 |
|                         |----+----+---------|
|                         |% P | MC | Cv | Vg |
|-------------------------+----+----+----+----|
|LAYER  N       SPECIES |    |    |    |    |
|1      1       POPUTRE |0100|55.0| 55 |    |
|2      2       PICEGLA |0100|40.0| 40 |    |
|5      3       LEDUGRO |0100|11.0| 11 |    |
|       4       VACCMYR |0100|08.0| 08 |    |
|       5       VACCVIT |0100|04.0| 04 |    |
|       6       SHEPCAN |0100|03.8| 03 |    |
|       7       PICEGLA |0100|02.2| 02 |    |
|       8       VACCCAE |0100|01.0| 01 |    |
|       9       AMELALN |0100|00.2| 00 |    |
|       10      POPUTRE |0100|00.2| 00 |    |
|6      11      CORNCAN |0100|05.2| 05 |    |
|       12      LINNBOR |0100|05.0| 05 |    |
|       13      GEOCLIV |0100|03.6| 03 |    |
|       14      MELALIN |0100|03.0| 03 |    |
|       15      PETAPAL |0100|03.0| 03 |    |
|       16      EPILANG |0100|02.6| 02 |    |
|       17      RUBUPUB |0100|01.4| 01 |    |
|       18      FRAGVIR |0100|00.6| 00 |    |
|7      19      ELYMINN |0100|01.2| 01 |    |
|       20      ORYZASP |0100|00.4| 00 |    |
|       21      SCHIPUR |0100|00.2| 00 |    |
|8      22      PLEUSCH |0100|60.0| 60 |    |
|       23      HYLOSPL |0100|07.2| 07 |    |
|       24      LYCOOBS |0100|04.0| 04 |    |
|       25      LYCOCLA |0100|03.0| 03 |    |
|       26      LYCOCOM |0100|02.0| 02 |    |
|9      27      CLADRAN |0100|01.0| 01 |    |
|       28      PELTAPH |0100|00.6| 00 |    |
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RESOURCE INVENTORY, EDMONTON ALBERTA

Group name: Sb/Labrador tea/Peat moss

			Avg	Avg	Plots															
					SLV009		SLJR01		SLAL05		WINK01		LLBRE08		SLHE02		SLMC03		SLWI01	
			% P	MC	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg
LAYER	N	SPECIES																		
1	1	PICEMAR	87.5	31.3			25		50		65		25		05		35		45	
	2	LARILAR	50.0	14.4			75				20		10		10					
	3	BETUPAP	25.0	00.4							02				01					
	4	PINUBAN	12.5	00.3			02													
4	5	SALISPP	37.5	04.5	20								15				01			
	6	BETUPAP	12.5	01.3	10															
	7	PICEMAR	12.5	00.9									07							
	8	SALIBAR	12.5	00.4											03					
	9	ALNUCRI	12.5	00.3	02															
	10	SALIBEB	12.5	00.1											00					
5	11	LEDUGRO	0100	28.9	19		20		11		35		07		17		60		61	
	12	OXYCMIC	62.5	04.0			08		01				00		20		02			
	13	VACCVIT	62.5	03.6	06		15		01				01						05	
	14	BETUGLA	25.0	09.1									72		01					
	15	PICEMAR	25.0	03.8							15								15	
	16	VACCMYR	25.0	02.0	15														01	
	17	RIBEHIR	25.0	00.4	02										01					
	18	BETUPAP	25.0	00.3			00				02									
	19	PICEGLA	12.5	01.3	10															
	20	LARILAR	12.5	01.0							08									
	21	SALISPP	12.5	00.9							07									
	22	ARCTUVA	12.5	00.8													06			
	23	CORNSTO	12.5	00.4	03															
	24	POPUTRE	12.5	00.4	03															
	25	VACCCAE	12.5	00.4											03					
	26	LONIINV	12.5	00.3					02											
	27	LONICAE	12.5	00.3									02							
	28	ROSAACI	12.5	00.1					01											
	29	VACCMEM	12.5	00.1											01					
	30	VACCSPP	12.5	00.1	01															
	31	VIBUEDU	12.5	00.0					00											
6	32	RUBUCHA	37.5	08.0							14						35		13	
	33	PETASAG	37.5	00.6			01				03		00							
	34	MITENUD	37.5	00.4			00		01						01					
	35	EQUIARV	25.0	03.8			23		07											
	36	LINNBOR	25.0	02.1	14				02											
	37	HABEVIR	25.0	01.0									06						01	
	38	EQUISCI	25.0	00.7	03				02											
	39	EQUIFLU	25.0	00.7					00		05									
	40	STELLON	25.0	00.2							00				01					

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Group name: Sb/Labrador tea/Peat moss

					Plots															
			Avg	Avg	SLV009		SLJR01		SLAL05		WINK01		LLBRE08		SLHE02		SLMC03		SLWI01	
			% P	MC	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg	Cv	Vg
LAYER	N	SPECIES																		
6	41	CORNCAN	25.0	00.1					00				00							
	42	FRAGVIR	25.0	00.1					00		00									
	43	SMILTRI	12.5	02.4							19									
	44	OXYCMIC	12.5	01.5							12									
	45	PETASPP	12.5	00.8					06											
	46	SMILSTE	12.5	00.4													03			
	47	ASTECIL	12.5	00.3	02															
	48	ORTHSEC	12.5	00.2							01									
	49	POTEPAL	12.5	00.2							01									
	50	EPILANG	12.5	00.1	01															
	51	EQUISYL	12.5	00.1					00											
	52	RUBUARC	12.5	00.0									00							
	53	GALIBOR	12.5	00.0							00									
	54	PETAPAL	12.5	00.0			00													
7	55	CALACAN	50.0	02.7			04				03		04		10					
	56	CARESPP	37.5	03.8			07		09		14									
	57	CAREAQU	25.0	02.6									06		14					
	58	CAREFIL	25.0	00.8			00		05											
	59	BROMCIL	12.5	00.1			01													
	60	CAREAUR	12.5	00.1											01					
8	61	SPHASPP	62.5	43.9									99		84		93		75	
	62	MOSSSPP	37.5	30.7	95		72		78											
	63	PLEUSCH	12.5	03.0															24	
	64	*	12.5																	
9	65	CLADRAN	25.0	07.3			02												56	
	66	PELTAPH	25.0	01.9			02		12											

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VEGETATION  REPORT
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RESOURCE INVENTORY, EDMONTON ALBERTA
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Group name: Sb/Bog birch
----------------------------------------------
|                          |    |    | Plots   |
|                          |    |    |---------|
|                          |Avg |Avg  | SCH003  |
|                          |----+----+---------|
|                          |% P | MC | Cv | Vg |
|--------------------------+----+----+----+----|
|LAYER  N      SPECIES     |    |    |    |    |
|5      1      SALISPP     |0100|30.0| 30 |    |
|       2      BETUGLA     |0100|24.0| 24 |    |
|       3      VACCMYR     |0100|12.0| 12 |    |
|       4      LARILAR     |0100|10.0| 10 |    |
|       5      PICEMAR     |0100|05.0| 05 |    |
|       6      BETUPAP     |0100|02.0| 02 |    |
|6      7      OXYCMIC     |0100|57.0| 57 |    |
|       8      SMILTRI     |0100|04.8| 04 |    |
|       9      EQUIARV     |0100|02.0| 02 |    |
|7      10     CALACAN     |0100|05.5| 05 |    |
|       11     CARESPP     |0100|02.0| 02 |    |
|8      12     SPHASPP     |0100|    |    |    |
----------------------------------------------
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